EPSON
EXCEED YOUR VISION

2005-2006

System Product Guide

POS Terminal **IR**
POS Terminal **SR**
POS Terminal **MR**
Printers **TM SERIES**
Customer Displays **DM-D SERIES**

The Best Hardware Solutions For Your Open System

Innovation For The Customer

Since its establishment, Epson has continued to strive to define new standards of performance and operation ease.
Our aim is total customer satisfaction.
To achieve this, we look at the task at hand,
and combine our extensive database and technical expertise with our considerable experience to deliver the optimum solution.
Naturally, we also take advantage of our global network to keep abreast of the latest trends worldwide.
By doing this, we are always able to provide value-added products that respond precisely to changing needs.
Innovation - it's all part of Epson's customer first approach.

Co-Existence

In Harmony With The Environment

In line with its commitment to maintaining harmony with nature, Epson has implemented a wide range of measures to protect the environment. These began more than ten years ago, with the declaration that the company would stop using CFCs. Other examples include the reduction of CO_2 emissions at factories and facilities, reduction of waste materials, and recycling. This careful attention to the environment has enabled a number of Epson factories to acquire ISO14001 certification.

Quality

Unrivalled Quality

All Epson products have one thing in common – outstanding quality. This is the result of the careful attention we pay to customers' particular requirements. Thanks to this superior quality, Epson was the first mini printer manufacturer to acquire accreditation for ISO9001, the strictest of the ISO9000 international quality standards, covering every aspect of quality control, from quality assurance systems to services. ISO9001 compliance is just another example of the measures Epson takes to bring you total product satisfaction.

Epson Ecology Label

The Epson Ecology Label is a voluntary labeling (Type II) system applicable to all Epson products. Epson develops new products based on its own evolving set of environmental standards and discloses the products' compliance through the label. The products with this label are Epson Ecology Product. Refer to the web site (http://www.epson.co.jp/e/) for the standards in detail.

EPSON Roots

Epson's first major product was a digital watch featuring micromechatronics and electronic technology. This was followed by a printing timer used as the official timekeeper at the 1964 Olympics. Four years later there came the EP-101, the world's first electronic calculator mini printer. This ultra-compact printer was a huge hit worldwide and heralded the start of Epson's multi-faceted business expansion, giving rise to many other products or "sons". Actually, the name EPSON is a combination of the EP from the EP-101 and SON. EPSON. A name associated with cutting-edge, high quality products around the world.

Epson Takes The Initiative For Your Solution.

Setting the standards by providing revolutionary products for a wide range of applications. The facts speak for themselves. In the area of hardware, Epson has continued to provide countless solutions, such as the TM-J8000, the first inkjet printer for POS applications. With regards to software, Epson took the initiative by introducing ESC/POS®, a proprietary POS printer command system including patented commands and enabling versatile POS system construction with high scalability. Compatible with all types of Epson POS printers and displays, this proprietary control system also offers the flexibility to easily make future upgrades. Its popularity is worldwide. Another world first was OLE POS (OPOS) OCX driver software for application software development support in Windows NT®, Windows®2000, Windows®XP and WEPOS environments. For software development support in Java™ environments, there's JavaPOS™. These and other innovations are why Epson is a leader in its field. It's all a matter of taking the initiative.

Satisfying Needs

Whenever there's a need, Epson is there with just the right solution. The TM Series lineup offers models to print everything from receipts, sales slips and journals to tickets, checks and invoices. And for retail and hospitality businesses, MR / SR / IR Series feature an easy-to-use touch panel.

Over 30 Years Of Satisfaction

For over a quarter of a century Epson has been the world's top manufacturer of printers. During this time, we have produced an incredible 200 million of our famous mini printers. At retail outlets, in hotels, hospitals, car rental centers, banks - wherever you look, you'll find an Epson printer contributing to improved productivity and efficiency.

CONTENTS

POS Terminal 4 IR Series

POS Terminal 6 SR Series

POS Terminal 8 MR Series

Printers 10 TM Series

Customer Displays 34 DM-D Series

POS Terminal

IR-700 Series

Customizable and Stylish POS Terminal

The All-in-one Solution

The IR-700 is the all-in-one POS terminal with compact design and improved performance that is the powerful successor to the IR-320. Continuing with the outstanding expandability and an integrated concept, the IR-700 offers even more flexibility through an increased number of peripherals and options that suit your requirements.

NEW

Stylish and Compact Design

The IR-700 boasts an attractive contemporary design that complements any store environment. Its small footprint makes the IR-700 fit snugly on your counter, freeing up valuable counter space. Cable connections are also inset behind the system and maintain a neat appearance, saving even more space. Furthermore, the IR-700 can be installed either horizontally or vertically to fit to store space. With its outstanding flexibility and compactness, the IR-700 makes your communication with the customer and your store operation much improved.

User-friendly Touch Panel

The IR-700's large display is easily readable thanks to the TFT screen, and you can choose between a 12.1" or 15.0" touch panel. Its high performance touch panel is incredibly easy to use, helping to reduce inputting errors, while reducing training time and costs.

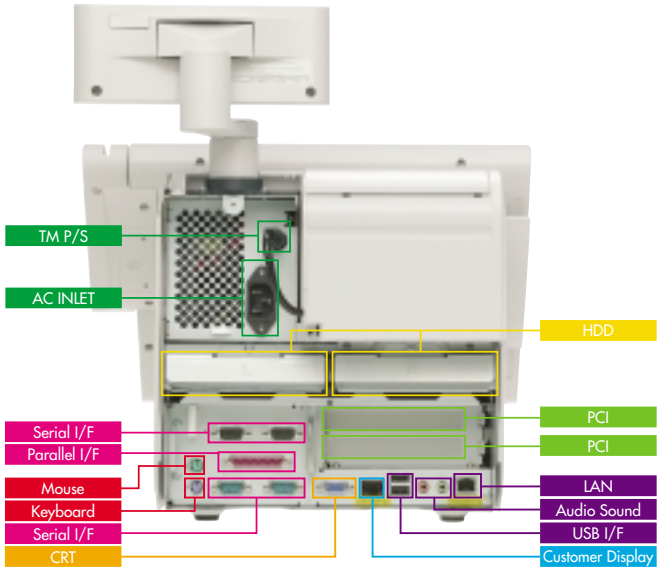
Flexible Printing & Easy Operation

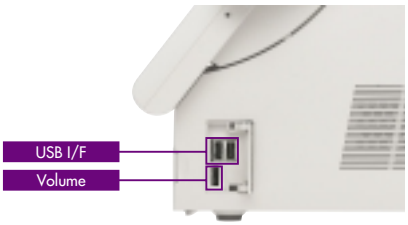
You can choose either the standard thermal receipt printer or another printer to meet your needs. The thermal receipt printer offers high speed printing and convenient drop-in paper loading. If you attach the optional printer tray for TM-T90/L90, both receipt and label printing are available in one printer. There's also an optional dummy printer cover, which lets you use other Epson TM series printers.

Dummy printer cover

Printer tray for TM-T90/L90

Multiple Interfaces For Exceptional Expandability





Various and Flexible Options

A wide range of options are selectable for customizing your system. These include an MSR unit, a 28-key or 60-key keyboard unit, and a selection of customer displays. These options allow you to upgrade your system easily and to customize it freely to meet your needs.

MSR Unit

28-Key Keyboard Unit with MSR Unit

60-Key Keyboard Unit

Customer Display

Easy Maintenance

It is very easy to replace or access devices such as the motherboard, HDD, LCD, and printer. So you can reduce the downtime at the store and save maintenance costs.

SPECIFICATIONS

CPU		Pentium® M 1.8 GHz / Celeron® M 1.3 GHz
Memory		184-pin DDR SDRAM DIMM slots x 2 (1 GB max.)
Storage		HDD: Can be equipped with 3.5-inch x 2, CompactFlash® card slot x 1
Slots		PCI x 2
I/O		Serial (External x 4) w/5 V & 12 V power for external by jumper switches Parallel x 1 (EPP/ECP supported) USB x 4 Ethernet x 1 (10 BASE-T / 100 BASE-TX), wake on LAN support PS/2 x 2 (for Keyboard and Mouse) CRT x 1 Customer display x 1 24 V Drawer port x 1 Sound: output to the built-in speaker, External line input / output, microphone input
Video		Built-in on chipset (capable of dual display)
Others	Power connector	for built-in (TM-T88IIIX) / external printer & powered USB board (24V)
	Power switch	Software switch on front / accidental power off protection
BIOS		ACPI 1.0b, APM 1.2, Plug and Play, DMI
OS Supported		Windows® 2000 Professional SP4 or later, Windows® XP Professional SP2 or later
Size	Base unit	250 (W) x 340 (D) x 254 (H) mm (with rear cover)
Printer Units	Thermal Printer	TM-T88IIIX (80 mm paper roll)
	Printer Tray	Printer tray for TM-T90 / L90
	Printer Cover	Dummy printer cover
LCD With Touch Panel		15.0" TFT color (1,024 x 768), Resistive touch panel (355 (W) x 280 (H) mm) 12.1" TFT color (800 x 600), Resistive touch panel (314 (W) x 254 (H) mm)
Options	Customer Display	VFD (20 x 2-line display or 256 x 64 dots graphic display), w/Clamp pole, w/Extended Pole (125 mm)
	MSR Unit	ISO 1 ,2 & 3 track, Fixed to LCD or Keyboard unit
	POS Keyboard Unit	60-key unit, programmable, 28-key unit, programmable
	Others	Vertical Stand, Powered USB Board
EMC Standards		VCCI class A, FCC class A, CE marking, AS / NZS CISPR22 class A
Safety Standards		UL / CSA / EN

OPOS OLE POS

POS Terminal

SR-600 Series

Compact POS Terminal for retail and hospitality

Quality and Performance at A Touch

The Epson SR-600 Series provides establishments with the competitive advantage they need to stay ahead.
Compact and unobtrusive, this outstanding product offers highly efficient, powerful solutions to any business that requires a low-cost, easy-to-operate POS terminal.
Blending stylishly with any retail environment, the terminal's low profile means that communications with customers are unhindered.
A wide range of expansion possibilities and peripherals ensures that the precise needs of users are met.
Long established leaders in the POS field, Epson products combine superior design with all the latest technological developments. Why settle for anything less?

Increased Efficiency

A powerful Celeron® CPU increases operating speed by processing data quickly, reducing customer waiting time.
Training time is kept to a minimum thanks to the large easy-to-operate LCD with touch panel.

Selectable Configuration

A wide range of POS peripherals enables users to tailor a system to meet their needs. Alongside the LCD display, users can select from a magnetic stripe reader (MSR), a customer display, a CD-ROM, CompactFlash®, and one of Epson's range of industry-leading POS printers.

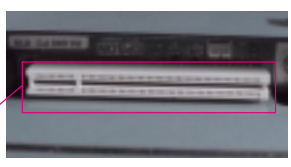
MSR Unit

Customer Display

CD-ROM Drive

Expandability

A PCI slot, three serial ports, a parallel port and two USB enable the system to be expanded, while for customers with large systems there is 100/ 10Base-T Ethernet capability.
Data backup and installation/saving of applications software is simple.



Boutiques and Up-Market Retail Establishments

Any boutique understands the importance of superior design. And the classy Epson SR-600 Series will not look out of place in even the most up-market of establishments.
Quiet, compact, and with a low profile, its sleek lines and stylish appearance mean this POS terminal will add to, rather than detract from, the ambience of any store.

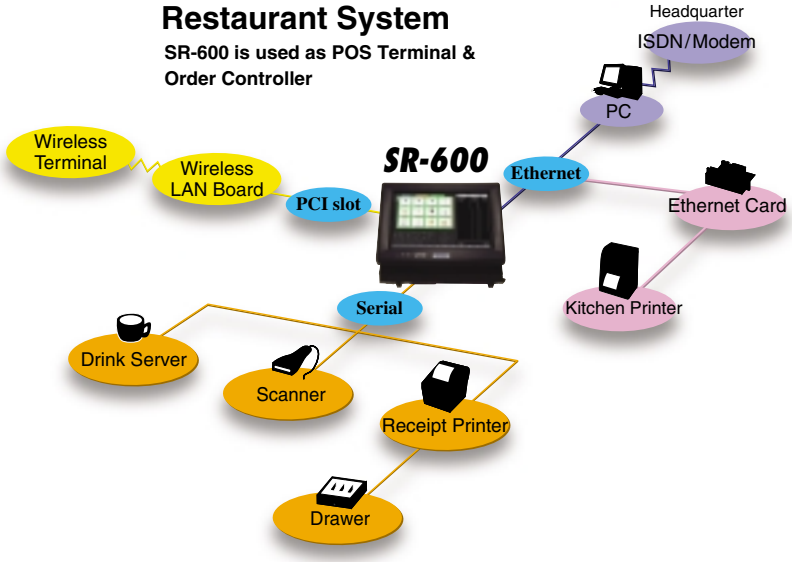
Restaurants, Bars and Fast Food Stores

The food industry requires POS terminals that are efficient, no-nonsense and durable - and that's just what the SR-600 Series is. Easily visible under subdued or bright lighting, the LCD touch panel is simple for part-time or inexperienced staff to operate, reducing training time and the possibility of errors.
And accidental spills of water and sauce can be wiped off in an instant.

Not only functional, the sleek lines and refined good looks of the SR-600 Series are sure to enhance the appearance of any shop counter. This modernistic design will blend perfectly with the decor of even the most up-market specialty store or the highest class of hotels.

Restaurant System

SR-600 is used as POS Terminal & Order Controller



Flexible Installation

Neat and compact, the SR-600 Series can be sited on the counter, discretely concealed from customers, or even on a high shelf.
With a footprint of 306 by 303 mm and a height of 278 mm at its highest and 225 mm at its lowest angle, the terminal keeps the counter uncluttered and allows unimpeded communication with customers.
Designed to withstand the rigors of even the toughest fast food restaurant or eatery, the heat-resistant SR-600 Series can withstand accidental splashes and spills of water, mayonnaise or ketchup.
Use the SR-600 Series to create the retail environment that's right for your customers.

Reduced Cost of Ownership

Designed to be compatible with the latest PC architecture and industry standards (OPOS), the SR-600 Series is designed to keep your costs to a minimum.
Service and maintenance fees are reduced thanks to the lift-up main unit case that makes access to the CPU, HDD and memory easy.
The LCD unit is also simple to remove and attach.
Most upgrades and simple repairs can be carried out by the user, reducing the need to call service personnel.

SPECIFICATIONS

CPU		Celeron® 733 MHz
Memory		168-pin DIMM slots x 2 (Max. 512 MB)
I / O Ports		Ethernet x 1 10 Base-T / 100 BaseTX SERIAL x 3 (9-pin D-sub male), +5 V to pin 1 of COM1 or COM2 Parallel x 1 (D-sub 25-pin female) USB port x 2 K/B & Mouse port x 1 PS / 2-type (6-pin mini-DIN) CRT x 1 (D-sub 15-pin female) (Factory option on the drawer board) Cash Drawer x2 (for two drives) (Factory option with CRT)
Storage		FDD (1.44/3.5" External Option), 1 HDD (2.5" IDE interface / Ultra DMA / 33)-1 CD-ROM Drive (Alternative Option)-1, CompactFlash® Card Slot (Alternative Option)-1
Slot		PCI x 1
MSR		ISO Track 1, 2, 3 (Option)
Size		Base unit ····· 306 (W) x 303 (D) x 278 (H)mm <12.0" x 11.9" x 10.9"> (at highest angle) (including rubber feet, excluding LCD clamp)
Mass		Approx. 8.6 kg (including CPU, HDD, DIMM, TFT LCD UNIT)
Environment	Temperature	Operating ····· 5˚ to 35˚C
		Storage ····· -10˚ to 50˚C
	Humidity	Operating ····· 30 to 80 % RH (no condensation)
		Storage ····· 30 to 85 % RH (no condensation)
OS Supported		MS-DOS® 6.2, Windows® 98, Windows® 2000, Windows® XP, Windows NT®
LCD With Touch Panel		12.1-inch color TFT (800 x 600 dots, with resistive touch panel)
Customer Display		2 x 20 char. Type
Others		Front key lock , Backup battery
EMC Standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 (CISPR22) class A
Safety Standards		UL / CSA / EN

OPOS OLE POS

*1 Bay Configuration

Internal Bay	Front Bay
HDD or CF	CF or CD-ROM

CF: CompactFlash® Card Slot

POS Terminal

MR-800 Series

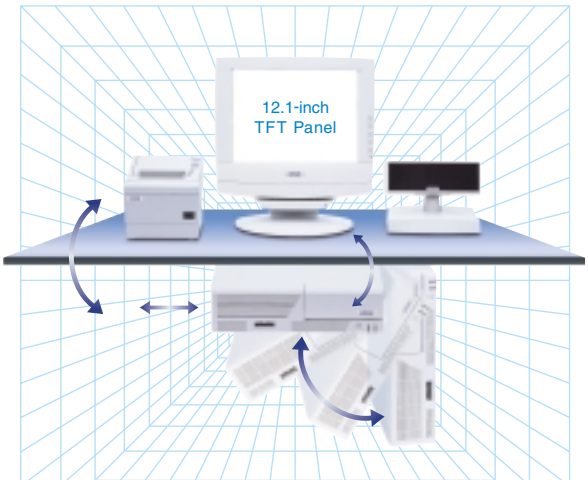
Modular-type POS Terminal

A Powerful Checkout Partner

Epson presents the MR, its powerful Modular POS system for retailers who want to stay ahead. Backed up by Epson's powerful support network, the MR is a reliable partner that provides the compactness and versatility that you need to serve your customers quickly and efficiently – and increase profits. The modular design offers a variety of layout possibilities and configurations enabling you to arrange the MR to fit precisely into your store and your system. If you want peace of mind, make Epson's MR your partner for success.

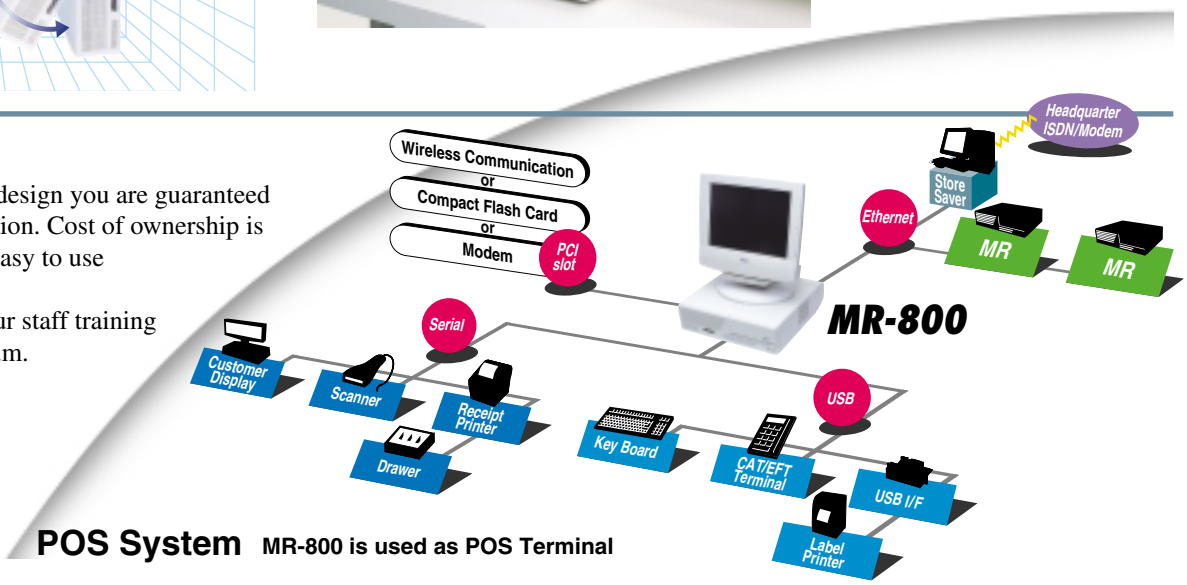
Compact and Modular Design

The MR's elegant, modular design in a small footprint, means that it can be arranged to fit neatly on to or under any counter. The main PC that can be arranged vertically or horizontally, giving you more options for under the counter installation.



Low Cost of Ownership

Thanks to the MR's robust design you are guaranteed long and trouble free operation. Cost of ownership is further reduced, since it is easy to use and reduces training time. The MR helps you keep your staff training costs to an absolute minimum.



POS System MR-800 is used as POS Terminal

Increased Efficiency

With a powerful Celeron® CPU increasing the speed of every transaction, the MR ensures you will not keep your customers waiting. The easy-to-view 12.1" TFT monitor and optional touch panel allows transactions to be completed quickly and easily. Tailored exactly to meet your needs, this durable, worry-free POS terminal from Epson can increase the efficiency of your business, and lead to satisfied customers and higher profits.

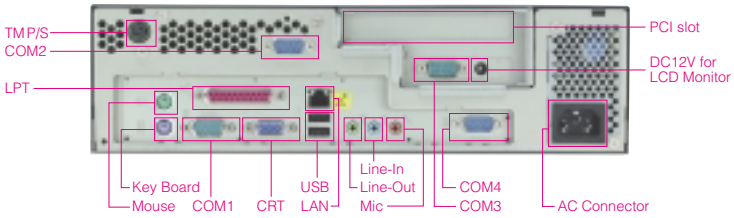
MSR Unit

CD-ROM Drive
CD-R/RW Drive

12.1-inch TFT Panel

Flexibility

The MR's compact design still delivers outstanding expandability. One parallel, four USB and four serial ports mean that it can be connected freely to as many devices as you need to run your business.
Options such as an MSR, touch panel and CD-ROM unit give you the power to configure it to your precise needs.
And by selecting a printer from Epson's acclaimed TM or DM-D series, the MR lets you create the ideal POS system for your business.



SPECIFICATIONS

1.BASE Unit PC function

CPU		Celeron® 733 MHz / 1.2 GHz
Memory		168 pin DIMM / SDRAM x 2 slots (512MB Max)
Storage		FDD (3.5" slim FDD) x 1, 1 HDD (3.5",10GB or more)
Slots		PCI x 1
I / O Ports		Ethernet x 1, 10 Base-T / 100 BaseTX (RJ-45 with access LED) Serial x 4 (D-sub 9-pin male), *COM3 / COM4 can output +5V or +12V by jumper setting Parallel x 1 (D-sub 25-pin female) USB port x 4 (2 x Rear, 2 x Front), Support Legacy USB Keyboard / Mouse K/B & Mouse port x 1 PS / 2-type (6-pin mini-DIN) LCD Monitor x 1 (D-sub 15-pin female) Audio (AC97 2.1 Audio Codec, MIC Jack, Line-In Jack, Line-Out Jack) DC Output for DM-M820 (LCD Monitor), DC Output for TM printers.
Video		Integrated 2D / 3D Graphic Accelerators controller
Speaker		Built-in monaural speaker (without volume), *Not support Audio output
OS Supported		MS-DOS® 6.2, Windows® 98, Windows® 2000, Windows® XP, Windows NT®
BIOS		ACPI 2.0b, APM 1.2, PnP 1.0a, SMBIOS 2.0
Option Unit	Optional drive	CD-ROM drive, CD-R / RW drive
Size		315 (W) x 365 (D) (280 without rear cover) x 88 (H) mm
EMC Standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 (CISPR22) class A
Safety Standards		UL / CSA / EN

2. Monitor

LCD	Size, Type	12.1" TFT 800 x 600 dots
	Color	262144 colors
	Brightness	350 cd / m^2 (w/TP:275 cd / m^2) *High Brightness model
	Lamp Life	50,000 hrs min. *High Brightness model
Connections	Video Input	Analog RGB
Power		DC 12V (From BASE Unit)
Dimension		320(W) x 340(H) x 200(D) mm
Option	MSR unit	ISO 7811, track 1, 2, 3
	Touch panel	Resistive film (Finger print resistance type) *High Brightness model

OPOS OLE POS

TM Series
Fast Solution For Multiple Printing Needs

●Inkjet printers ●Hybrid printers ●Thermal line printers
●Impact dot matrix printers ●Slip printers

Variety

Technology Lineup
Impact, thermal, hybrid and inkjet printers for a wide range of applications.

Station Lineup
A huge range of models including 1 station, 1.5 station, 2.5 station, Slip, and Label printers.

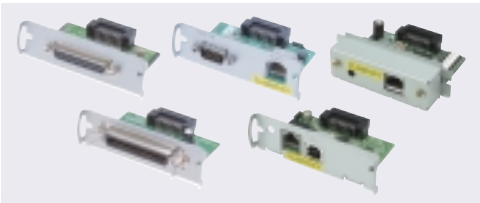
Two Case Colors
Epson dark gray available for hospitality businesses and stores aiming for interior color coordination.

Asian Multi-Language Capability
Extension memory enables use of multiple languages including Chinese and Thai.

- ASB ..... Automatic Status Back Function
- Easy Setting ..... Easy Paper Roll Setting
- Auto Feed ..... Auto Feed Paper Loading
- Autocutter ..... Autocutter
- 2 Colors ..... Two-color Printing
- Full Color ..... Full-color Printing
- Pigment ink ..... Pigment ink
- MICR ..... MICR
- Maintenance Memory ..... Maintenance Memory
- Display Port ..... Display Port
- Multi Language ..... Multi Language
- Dark Gray ..... Dark Gray

Expandability

Universal Interface
Wide range of interfaces to meet customers' current needs while enabling future upgrades.



Multiple interfaces

DM-D Connection
Interface on the printer side provided for connection of a DM-D customer display without taking up valuable counter space. Also leaves other interfaces free for additional applications.

IR Connection
You can easily combine a TM Series printer with an IR Series model for future system upgrades.

Easy combination with a customer display

Ready To Meet All Your Needs

When Epson designs a printer, it takes everything into consideration, not just whether you want receipt, journal, ticket or other output. This means there's an Epson printer ready to deliver all the functions and features you need while meeting your connection and security requirements. Take a look at what Epson has to offer.

Security

Maintenance Memory

Number of lines printed and number of cutter operations performed are stored in memory to help decide when maintenance is required.

Cable Management

Eliminates untidy cables while assuring firm connection.

Switch Cover

Prevents accidental switch operation.

Security Plug

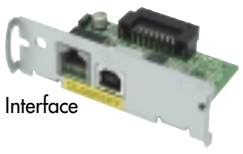
Prevents accidental unplugging.
(PS-180)

Locked Unlocked

Advanced Technology

Industry-Leading Innovation

Epson doesn't just focus on hardware development.
OLE POS application software simplifies POS application development in Windows® through the use of modules and objects.
It also enables control of POS devices regardless of the kind of hardware. JavaPOS™ does the same for application development in a Java™ environment. There's also ESC/POS®, Epson's proprietary control system enabling versatile POS system construction with high scalability.
Other examples of Epson's cutting-edge technology include customer displays ready to support USB and Ethernet interfaces.



USB Interface

Ethernet Interface

Technology at a glance

	Impact (Impact dot matrix)	Thermal (Thermal Line)	Hybrid (Hybrid)	Inkjet (Inkjet)
Features	Extremely durable Low maintenance requirements Epson models feature 9-pin technology for superior quality	Fast and quiet Direct printing to paper eliminates need for ribbon Easy paper loading	Combine thermal and impact printing capabilities	Fast and silent Ideal printers for PC output Plain paper printing capability 2-color / Full-color printing
Good for	Speed and clarity Reliability Low consumables cost (ribbons, plain paper) Capabilities such as check endorsement, validation etc.	Virtually silent printing High-resolution graphics High-speed output Printing labels and tickets Barcode printing	Quiet, high-speed operation High-resolution graphics Multi-part printing Enable check endorsement, validation etc.	Speed and print clarity High-resolution graphics High-speed printing Barcode printing capability Highlight printing (company logos etc.)
Recommended Epson printers	TM-U220 Series TM-U325 TM-U675 TM-U950 TM-U230 TM-U590 TM-U295	TM-T90 TM-L90 TM-L60II TM-T88III TM-P60	TM-H5000II TM-H6000III	TM-J2000/J2100 TM-J7000/J7100 TM-J7500/J7600 TM-J9000/J9100 TM-C100

TM Series Inkjet Printers

Using its original SEAJet® technology, Epson brings you an impressive range of inkjet printers for POS applications. Printers in the range provide a number of outstanding features such as graphic and 2-color / Full-color printing, and low cost of ownership.

Inkjet

TM-J7000 Series

Inkjet Receipt and Slip Printer

TM-J7000/J7100

TM-J7500/J7600

High Quality Inkjet Printing

Thanks to Epson's world-renowned inkjet printing technology, its TM-J7000 series printers for POS systems provide users with superb inkjet printing quality on receipts and slips. These printers are capable of printing logos and graphics, and the TM-J7100/J7600 adds a new dimension with attractive 2-color output.

Low Cost of Ownership

Ideal for retailers on a tight budget, plain paper printing, a tough print head and exceptional durability ensure that the cost of owning these printers is considerably less than other POS printers. A choice between economy, high speed and normal modes allows users to set the printer to suit their needs and budgets.

Flexible

A simple adjustment allows users to switch freely between a variety of receipt paper sizes (57.5 to 82.5 mm). And the TM-J7500/J7600 can handle wide slip paper (up to 135.6 mm in printing width). Designed to drop into existing systems, the TM-J7000 series are fitted with a wide range of interfaces.

High Performance

Despite its small footprint and compact size, the TM-J7000/J7100 boast exceptional performance. Thanks to Epson's original technology, endorsement on the reverse side of personal checks is possible in a single pass, cutting the time taken for this operation to a mere 12 seconds, a fraction the speed of conventional printers.

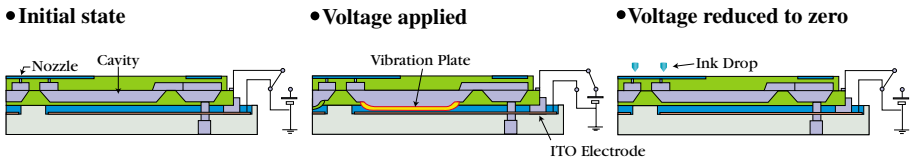
Print method		Serial inkjet dot matrix (180 dpi x 180 dpi)
Print font	Font	12 x 24 / 9 x 17
	Column capacity (columns)	Receipt: 82.5 mm: 42 / 56 76 mm: 40 / 53 69.5 mm: 36 / 48 57.5 mm: 30 / 40 Slip: 48 / 64 Endorsement: 46 / 61 (for J7000 /J7100) Slip: 80/106 (for J7500 /J7600)
	Character size (mm)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7), Two-dimensional code: PDF417
	Characters per inch	15 cpi / 20 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB , 10 Base-T I/F
Data buffer		4 KB
Print speed		Character: 14.3 lps Graphic: 43 mm / sec. (Paper width 76 mm, Economy, High speed mode)
Paper	Dimensions (mm)	Receipt: 57.5 ± 0.5, 69.5 ± 0.5, 76 ± 0.5, 82.5 ± 0.5 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Endorsement: 68 to 101.6 (W) x 150 to 223 (L) (for J7000 /J7100)
	Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.2 Endorsement: 0.09 to 0.13 (for J7000 /J7100)
Ink Cartridge		Single color: SJIC8 (K) : Black (for J7000 / J7500 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B): Blue, SJIC7 (G): Green (for J7100 / J7600)
Ink life (characters)		Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined)
Power		24 VDC ± 10%
Power consumption		Operating: Approx. 0.5 A Stand-by: Approx. 70 mA (for J7000 /J7100) Stand-by: Approx. 80 mA (for J7500 /J7600)
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 50,000,000 lines
Overall dimensions (mm)		195 (W) x 237 (D) x 188 (H) (for J7000 /J7100) 251 (W) x 237 (D) x 188 (H) (for J7500 /J7600)
Mass (Approx.)		4.4 kg (for J7000 /J7100), 4.9kg (for J7500 /J7600)
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Factory options		MICR device (for J7000 /J7100)
Safety standards		UL / CSA / EN

ASB · Easy Setting · Autocutter · 2 Colors · MICR · Maintenance Memory · Display Port · Dark Gray

SEAJet® Technology

SEAJet® is a newly developed original Epson inkjet technology aimed at small printers for POS and other commercial uses. This technology allows the development of compact print heads, energy efficient print head, and gives POS printers high-resolution printing capability.

SEAJet® Acting Principle



Inkjet

TM-J9000/J9100

NEW

Inkjet

New Banking Printer from Epson

Now banks can take advantage of all the benefits of check imaging capture with Epson's family of inkjet printers featuring a card image scanner function and digital check imaging. In addition, these multifunction inkjet printers offer speedy high-resolution one- and two-color receipt printing, drop-in validation and more.

Epson Ecology Product

This product is an Epson Ecology Product.
Realized the miniaturized product by unifying the constituted function of plural equipment. This product has been achieved the equal level to TM-J7000: Stand-by mode, 4.9 W (with PS-180).

ASB | Easy Setting | Autocutter | 2 Colors | MICR | Maintenance Memory | Dark Gray | Hi-Speed USB

Inkjet Printer with Check Scanner and Card Scanner

Print method		Serial inkjet dot matrix (180 dpi x 180 dpi)
Print font	Font	12 x 24 / 9 x 17
	Column capacity (columns)	Receipt: 40 / 53, Validation: 62 / 82
	Character size (mm)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H)
	Character set	95 Alphanumeric, 48 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR (NW7)
	Characters per inch	15 cpi / 20 cpi
Interfaces		USB 2.0, Dealer option: RS-232, Bi-directional parallel, Ethernet
Data buffer		4 KB
Print speed		Character: 14.3 lps (8 lines/inch), Graphic: 43 mm / sec. (Receipt: High speed mode, paper width 76 mm, full columns print)
Paper	Dimensions (mm)	Receipt: 76, Validation: 68 to 100 x 152 to 230 (H x W)
	Thickness (mm)	Receipt: 0.06 to 0.09, Validation: 0.09 to 0.13
Ink Cartridge		Single color: SJIC8 (K) : Black (for J9000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B): Blue, SJIC7 (G): Green (for J9100)
Ink life (characters)		Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined)
Power		24 VDC ± 10%
Power consumption		Operating: Approx. 1.0A, Stand-by: Approx. 0.2A
Reliability	MTBF	180,000 hours
	MCBF	2,470,000 transactions (This is an average failure interval based on failures relating to wearout and random failures up to the life of 1,000,000 transactions)
	Life	1,000,000 sheets (including those for reading check paper and card)
Overall dimensions (mm)		466(389) (W) x 232 (D) x 180 (H) (with ASF) 310(236) (W) x 232 (D) x 180 (H) (without ASF)
Mass (Approx.)		5.2 kg (with ASF) / 4.9 kg (without ASF)
EMC standards		VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A
Power supply (option)		PS-180 (option)
Factory Options		Auto Sheet Feeder (ASF) with Double Feed Detection Function
Safety standards		UL / CSA / EN

Image Scanner Specifications

		Check	Card
Scanner type		Contact image sensor (CIS)	
Resolution		200 dpi	
Gradation		Bi-tonal (black/white), 256-level gray scale	256-level gray scale
Data compression method		Bi-tonal: CCITT/group4, JPEG	JPEG
Data transmission format		RAW/ Bi-tonal: TIFF, 256-level gray scale: JPEG, TIFF, BMP	
Scanning area		100 mm (H) x Max. 236 mm (L)	60 mm (H) x 100 mm (L)
Scanning speed		300 mm / sec.	120 mm / sec.
Paper	Type	Normal quality paper	ISO/IEC7810 compliant (except for embossed material)
	Size	68 to 100 mm (H) x 152 to 230 mm (L) (min. 68 x 152 mm)	53.92 to 54.18 mm (H) x 85.47 to 85.90 mm (L)
	Thickness	0.09 to 0.13 mm (single-ply)	0.5 to 0.84 mm
	Curvature	-	2 mm or less (ISO/IEC7810)

Inkjet

TM-J2000/J2100

Inkjet

High Performance in a Compact Body

Although compact with a small, space-saving format, the Epson TM-J2000/J2100 deliver outstanding performance and attractive receipts. Customers will be impressed by the eye-catching 2-color output of the TM-J2100.

Easy to Use

The Epson TM-J2000/J2100 feature a full-frontal drop-in paper loading system that makes it easy to replace paper and cartridges.

ASB | Easy Setting | Autocutter | 2 Colors | Maintenance Memory | Display Port | Multi Language

Inkjet Receipt Printer

Print method		Serial inkjet dot matrix (180 dpi x 180 dpi)
Print font	Font	12 x 24 / 9 x 17
	Column capacity (columns)	82.5 mm: 42 / 56, 76 mm: 40 / 53, 70 mm: 36 / 48, 58 mm: 30 / 40
	Character size (mm)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.4 (H)
	Character set	ASCII, WPC1252, PC437, PC850, PC852, PC858, PC860, PC863, PC865, PC866, Custom Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), 2 of 5 (ITF), CODE 39, CODE 93, CODE 128, CODABAR (NW7)
	Characters per inch	15 cpi / 20 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB , 10 Base-T I/F
Data buffer		4 KB or 512 bytes
Print speed		Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print)
Paper	Dimensions (mm)	57.5 ± 0.5, 69.5 ± 0.5, 76 ± 0.5, 82.5 ± 0.5
	Thickness (mm)	0.06 to 0.11
Ink Cartridge		Single color: SJIC5 (K): Black (for J2000 only) Two color: SJIC3 (K): Black, SJIC4 (R): Red, SJIC4 (B): Blue, SJIC4 (G): Green (for J2100)
Ink life (characters)		Single color: Approx. 24,000,000 Two color: Approx. 17,000,000 (2 colors combined)
Power		24 VDC ± 10%
Power consumption		Operating: Approx. 1A, Stand-by: Approx. 65mA
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours, MCBF: 50,000,000 lines
Overall dimensions (mm)		195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H)
Mass (Approx.)		4.7 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Safety standards		UL / CSA / EN

Inkjet

TM-C100

Full-Color Inkjet Printer

Full-Color Inkjet Printer for Business Use

The TM-C100 is a high performance inkjet printer for on demand full-color printing specially designed for business use. With its outstanding performance, your communication with the customer and your store operation will be dramatically improved.

High Durability

Its high durability is suitable for use in hectic business environments. (Autocutter: approx. 200,000 cuts, ASF: approx. 200,000 sheets)

Compact and Space Saving

The compact design with a small footprint means the printer fits snugly on your counter with a width of only 210 mm (8.27 in), freeing up valuable counter space.

High-Performance Full-Color Printing

Offers high-performance full-color printing using 4-color pigment ink (CMYK in a 4-color combined ink cartridge). Its superior waterproof and lightfast performance meets business application needs.

Various Papers Usable

The versatile TM-C100 suits a wide range of printing needs and applications. As various paper media (normal paper, exclusive paper [fine/mat], normal continuous label paper) and media sizes are selectable, you can use the printer for a broad range of applications, such as tickets, color coupons, price tags, on demand POP, recipes, medical instruction, member's cards, business cards, and message cards. Moreover, you can select the model that uses roll paper with an autocutter or the model that uses cut sheets with an Auto Sheet Feeder (ASF) to meet your needs.

		Roll Paper model	Auto Sheet Feeder model
Print method		Serial inkjet dot matrix (Max. 360 dpi x 360 dpi)	
Print font		Not equipped with print font and print all data as the graphic data	
Bar code		This printer does not have a bar code/two-dimensional symbol encoding function; however, a bar code/two-dimensional symbol that can be read with a bar code/two-dimensional symbol reader can be created by printing bar code/two-dimensional symbol data (graphic data) provided by users. UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7) Two-dimensional code: PDF417	
Interfaces		USB	
Print speed	Four-color	Max. 35 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing)	
	Single-color	Max. 51 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing)	
Paper	Type	Normal paper, exclusive paper (fine/mat), Normal continuous label paper	Normal paper, exclusive paper (fine/mat)
	Dimensions (mm)	Roll paper: 45 to 105 (W) x dia. 90.0	ASF: 55 to 135 (W) x 85 to 210 (L) insertion by hand: 49 to 210 (W) x 120 to 297 (L)
	Thickness (mm)	Roll paper: 0.06 to 0.23	ASF: 0.08 to 0.25 insertion by hand: 0.08 to 0.25
Ink cartridge	Four-color	SJIC9P (4-color combined, pigment ink)	
	Single-color	SJIC10P(K) (Black, pigment ink)	
Ink life	Four-color	660 pages (printable area 100 x 280 mm, with each of the colors covering 8.5% of the area, high speed mode printing)	
	Single-color	2,500 pages (printable area 100 x 150 mm, with each of the colors covering 6.0% of the area, high speed mode printing)	
Power		AC adapter (included)	
Power consumption		Operating : Approx. 11W (mean)	
Reliability	MTBF	180,000 hours	
	MCBF	30,000,000 passes	
Overall dimensions (mm)		210 (W) x 345 (D) x 152 (H)	210 (W) x 367 (D) x 245 (H)
Mass (Approx.)		2.0 kg	1.9 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	
Power supply		Exclusive AC adapter (included)	
Safety Standards		UL / CSA / EN	
Operating System		Microsoft Windows® 2000 Professional SP4 or later Microsoft Windows® XP Professional SP1 or later	

TM Series Thermal Line Printers

Extremely fast, quiet output and exceptionally clear characters are just some of the advantages of thermal printers. There's no need to change the ribbon because printing is performed directly onto the paper. Paper loading is easy due to a simplified paper path. And label and ticket printing are possible including barcode capability.

Thermal Line

TM-P60

The TM-P60 – Mobile wireless printer

The TM-P60 can go anywhere you need it to go. Built with Epson's famous quality and reliability, the TM-P60 is designed to meet the needs of both retail and hospitality for high-speed, on-the-go thermal receipt printing.

Label peeler model available

NEW

The TM-P60 is also available with an automatic label peeler function. It peels labels off of liner (backing paper) automatically and it's so easy to operate the peeler function. *Please ask your Epson representative about specifications.

High Speed Printing

Offers clear, high-speed thermal printing up to 70 mm/sec. printing speed and equipped with an autocutter (receipt model). It makes operation more efficient and it will lead to an increase in customer satisfaction because the customers don't have to wait for printing.

Easy Operation

With one-hand paper and battery replacement, the TM-P60 is so easy to use that it requires almost no training. It will decrease not only the risk of breakdown but also the cost of educating operators.

High-Speed Mobile Wireless Printer

Long Battery Life

The TM-P60 offers an industry-leading battery life of up to 10 hours with IEEE 802.11b models and up to 20 hours with Bluetooth® models* – long enough for a full shift of on-the-go receipt and order printing. It will surely increase the operational efficiency that decreases operational cost.
*The battery life differs depending on the system environment.

High Durability

The TM-P60 is built to survive drops from 1.2m.

Make Use of Proprietary Applications

The TM-P60 comes with widely used ESC/POS® command codes, and APD/OPOS/JavaPOS™ drivers are available, which means current applications written for Epson's popular TM-T88 series can instantly be used with the TM-P60 with minimum modification.

Supports IEEE 802.11b and Bluetooth® Interface

You can keep a printing application using the Epson APD/OPOS/JavaPOS™ drivers on your store server and develop a printing application that does not depend on the OS of the PDA. And the PDA doesn't need to have both IEEE 802.11b and Bluetooth® interfaces, so there is a reduction of power consumption and the cost needed to install a PDA.

Available for a Wide Range of Printing

The TM-P60 is designed to meet a wide range of printing needs, such as payment POS at restaurant tables, line busting POS in busy periods at department stores and fast food restaurants, and mobile POS for quick service at such locations as stadiums and amusement places. Labels can be printed and attached on site for many uses, such as shelf labels, discount labels, and price tags at retail stores.

Print method		Thermal line printing
Print font	Font	12 x 24 / 10 x 24 / 8 x 16
	Column capacity (columns)	35 / 42 / 52 (58 mm), 36 / 43 / 54 (60 mm)
	Character size (mm)	1.50 (W) x 3.0 (H) / 1.25 (W) x 3.0 (H) / 1.0 (W) x 2.0 (H)
	Character set	95 Alphanumeric, 48 International, 128 x 10 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
	Characters per inch	16 / 20 / 25 cpi
Interfaces		IEEE 802.11b or Bluetooth®, RS-232
Data buffer		128 bytes
Print speed		Max. 70 mm / sec.
Paper	Dimensions (mm)	57.5 ± 0.5 (W) x dia. 51.0 (max.) (59.5 ±0.5 (W) by removing the spacer installed)
	Thickness (mm)	0.05 to 0.08
Operating temperature		0 to 50°C
Battery capacity		IEEE 802.11b: 10 hours, Bluetooth®: 20 hours (It differs depending on the system environment. For detail, please contact your Epson representative.)
Reliability	MTBF	120,000 hours
	MCBF	16,000,000 lines
	Autocutter life	500,000 cuts
Overall dimensions (mm)		103 (W) x 159 (D) x 65 (H)
Mass (Approx.)		0.67 kg (including battery)
EMC standards		VCCI class B, FCC class B, CE marking
Power supply		PS-10
Accessories		Li-ion battery pack LIP-2500 x 1, Roll paper dia. 40 mm x1
Options		Quick charger: OT-CH60, RS-232 cable: OT-RS60 Spare battery: LIP-2500, Shoulder strap: OT-ST60
Safety Standards		UL / CSA / EN

ASB Easy Setting Autocutter Maintenance Memory Dark Gray

*Specs for receipt model

Thermal Line

TM-L90 & Epson Business Label Software

High-Speed, High Performance Label Printer

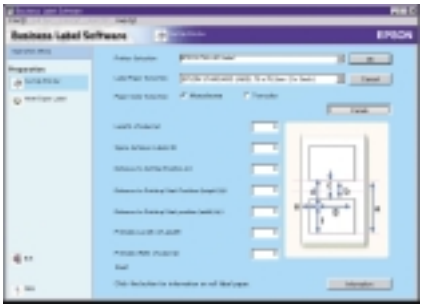
Label peeler model

High Speed and Performance

They don't come much faster than the TM-L90, Epson's popular counter-based label printer. Printing at an impressive 150 mm/sec., users can also enjoy the benefits of barcode and 2-color labels.

*Max. 2-color printing speed is 90 mm/sec.

**To print in two colors, users must load dedicated thermal paper and set the printer to the 2-color printing mode.



You can design custom labels to meet your exact needs.

Readymade templates make designing labels quick and easy.

Flexible

The Epson TM-L90 fits snugly into existing systems. Compatible with a wide range of paper widths, it also boasts a wide range of interfaces to allow easy connectivity.

Label peeler model available

The TM-L90 is also available with an automatic label peeler function. It peels labels off of liner (backing paper) automatically and it's so easy to operate the peeler function.

Epson Business Label Software

Now available with the TM-L90 is Epson Business Label Software, exciting, easy-to-use label design software from Epson. Following a series of simple steps, users can now create and print original labels - complete with colors and barcodes.

Perfectly complementing the advanced features and high-speed printing of the TM-L90, Epson Business Label Software also features consecutive number and date/ time counters, support in eight languages and database (ODBC, CSV & xls) link capability.

Print method		Thermal line printing
Print font	Font	9 x 17 / 12 x 24
	Column capacity (columns)	64 / 48
	Character size (mm)	1.1 (W) x 2.1 (H) / 1.5 (W) x 3.0 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 11 Graphic, Barcode: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417, MaxiCode, QRCode
	Characters per inch	22.6 cpi / 16.9 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Max. 150 mm / sec.
Paper	Dimensions (mm)	Rollpaper: Max. 79.5 ± 0.5 x dia. 90.0
	Thickness (mm)	0.06 ~ 0.15
Power		24 VDC ± 7%
Power consumption		Approx. 1.7 A (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 360,000 hours MCBF: 70,000,000 lines (when printing receipt)
Overall dimensions (mm)		140 (W) x 148 (D) x 203 (H)
Mass (Approx.)		1.9 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Option		Wall-hanging bracket WH-10
Safety standards		UL / CSA / EN

ASB · Easy Setting · Autocutter · 2 Colors · Maintenance Memory · Multi Language · Dark Gray

Thermal Line

TM-T90

High-Speed, High Performance Thermal Printer

Versatile and Easy to Use

A simple drop-in loading system means that even inexperienced operators can load paper rolls with the minimum of effort. Capable of handling paper rolls of up to 102 mm in diameter, the compact TM-T90 can be unobtrusively located in any retail environment.

Print method		Thermal line printing
Print font	Font	9 x 17 / 12 x 24
	Column capacity (columns)	56 / 42
	Character size (mm)	1.3 (W) x 2.4 (H) / 1.7 (W) x 3.4 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 11 Graphic, Barcode: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417
	Characters per inch	20.0 cpi / 15.0 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Max. 170 mm / sec.
Paper	Dimensions (mm)	Rollpaper: Max. 79.5 ± 0.5 x dia. 102.0
	Thickness (mm)	0.06 ~ 0.08
Power		24 VDC ± 7%
Power consumption		Approx. 1.7 A (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 360,000 hours MCBF: 70,000,000 lines
Overall dimensions (mm)		140 (W) x 201 (D) x 148 (H)
Mass (Approx.)		1.8 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Option		Wall-hanging bracket WH-10
Safety standards		UL / CSA / EN

Ultra Fast

At 170 mm/sec., TM-T90 is one of the fastest class printers – even when it prints barcodes and logos.
Also capable of printing in 2-colors, customers are sure to be impressed by the output of this high-performance printer.
*Max. 2-color printing speed is 100 mm/sec.
**To print in two colors, users must load dedicated thermal paper and set the printer to the 2-color printing mode.

Thermal Line

TM-T88III

High-Performance Thermal Printer

Print method		Thermal line printing
Print font	Font	9 x 17 / 12 x 24
	Column capacity (columns)	56 / 42
	Character size (mm)	0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
	Characters per inch	20.0 cpi / 15.0 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Max. 150 mm / sec.
Paper	Dimensions (mm)	Roll paper: 79.5 ± 0.5 (W) x dia. 83.0
	Thickness (mm)	0.06 to 0.07
Power		24 VDC ± 7%
Power consumption		Approx. 1.8 A (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 360,000 hours MCBF: 52,000,000 lines
Overall dimensions (mm)		145 (W) x 195 (D) x 148 (H)
Mass (Approx.)		1.8 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Option		Wall-hanging bracket WH-10
Safety standards		UL / CSA / EN

Fast and Flexible

Printing at 150 mm/sec. enables the TM-T88III to complete even large volume tasks quickly. With smooth and scalable font printing capability, this printer offers a choice of font sizes, and fence and ladder bar codes.

Compact and Easy Operation

The TM-T88III has a small footprint that allows for flexible placement on a countertop or wall using an optional wall-hanging bracket. Drop-in paper loading is quick and easy.

TM Series Hybrid Printers

Hybrid printers allow retailers to enjoy the benefits of both impact and thermal printing. Including the digital check imaging function now offered with the TM-H6000II/III, Epson's powerful range of hybrid printers are designed to fit a wide variety of user needs.

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H6000III

NEW

Ultra-Fast Thermal Receipt Printing

The TM-H6000III prints receipt at speeds of up to 200 mm per second – 15 % faster than the TM-H6000II. With two-color*, advanced graphic and barcode printing capability, this printer provides highly customized receipts including logos and promotional messages.

*To print in two colors, users must load dedicated thermal paper and set the printer to the two-color printing mode.

Check Printing Convenience

Enables quick printing and endorsement of checks in a single pass. This eliminates the need to reverse the check and shortens check printing time, which means faster transaction and throughput times.

Improved Reliability

With an improved MCBF of 72 million lines of receipt printing, the TM-H6000III delivers outstanding reliability that is rugged enough for the high-volume environments.

High-Speed, High Performance Hybrid Printer

Print method		Receipt: Thermal line printing, Slip: 9-pin serial impact dot matrix E / P: 8-pin shuttle impact dot matrix
Print font	Font	Receipt: 9 x 17 / 12 x 24, Slip: 5 x 9 / 7 x 9, E / P: 5 x 7
	Column capacity (columns)	Receipt: 56 / 42, Slip: 45 / 60, E / P: 40
	Character size (mm)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) Slip: 1.24 (W) x 3.1 (H) / 1.56 (W) x 3.1 (H) E / P: 1.1 (W) x 2.42 (H)
	Character set	Receipt / Slip: 95 Alphanumeric, 37 International, Receipt: 128 x 11 Graphic, Slip: 128 x 12 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE 39, CODE 93, CODE 128, ITF, CODABAR, Two-dimensional code: PDF417 (Receipt only)
	Characters per inch	Slip: 13.3 cpi / 17.8 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Receipt: Max. 200 mm sec. Slip: Approx. 5.7 lps (at 40 columns, 17.8 cpi) E / P: Approx. 1.9 lps
Paper	Dimensions (mm)	Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0 Slip & E / P: 68 to 230 x 68 to 297 mm (W x L) NOTE: The minimum paper size is 68 x 152 mm
	Thickness (mm)	Receipt: 0.06 to 0.09, Slip: 0.09 to 0.31 E / P: 0.09 to 0.2
Copy capability		Slip: One original and three copies E / P: One original single ply
Inked ribbon		Slip: ERC-32 (Purple, Black), E / P: ERC-41 (Purple, Black)
Ribbon life		Slip: Purple: 6,000,000 characters, Black: 4,000,000 characters E / P: Purple: 1,000,000 characters, Black: 800,000 characters
Power		24 VDC ± 10%
Power consumption		Receipt: Approx. 1.8 A Slip: Approx. 1.7 A
D.K.D.function		2 drivers
Reliability		MTBF: Receipt: 360,000 hours, Slip: 180,000 hours MCBF: Receipt: 72,000,000 lines, Slip: 18,000,000 lines
Overall dimensions (mm)		186 (W) x 298 (D) x 185 (H)
Mass (Approx.)		5.3 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548
Power supply		PS-180 (option)
Factory options		MICR device, Endorsement printer (E / P)
Safety standards		UL / CSA / EN

ASB · Easy Setting · Autocutter · 2 Colors · MICR · Maintenance Memory · Display Port · Multi Language · Dark Gray

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H6000II/III with Check Scanner

Exclusive Digital Check Imaging Tool

The popular TM-H6000II/III is now available with an exclusive new feature an image scanner that uses digital check imaging technology.

Leading Technology

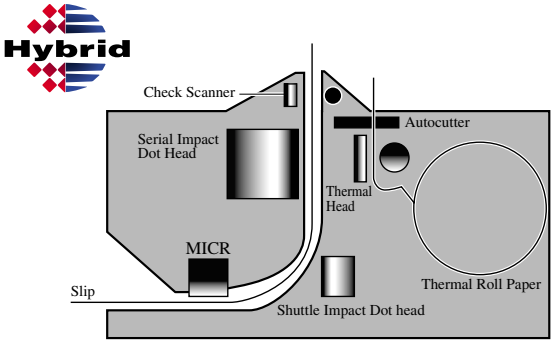
The TM-H6000II/III with check scanner converts checks to electronic data that can be sent to financial institutions. Leading technologies employed in this system include high quality bi-tonal(black/white) or gray scale imaging and high-performance, intelligent data compression.

Improved Efficiency

Adding an image scanner to the MICR* and check endorsement capability of the TM-H6000II/III, reduces the retailer's workload at the end of the day.

*Magnetic ink character recognition.

High-Speed Printer with Digital Check Imaging



Check Scanner Specifications

Scanner type	Contact image sensor (CIS)
Resolution	200 dpi
Gradation	Bi-tonal (black/white) or gray scale are selectable with a command.
Scanning speed	120 mm / sec.
Data compression method	Bi-tonal: CCITT/group 4, Gray scale: JPEG
Data transmission format	Bi-tonal: TIFF (If the data is transmitted without compressing data, raw data or BMP format.) Gray scale: JFIF (JPEG file format) (If the data is transmitted without compressing data, raw data, BMP format, or TIFF format.)
Memory for scanning	4M bytes
Scanning area	Width: Max. 100 mm, Length: Max. 230 mm
Non scanable area	Max. 2 mm from check bottom edge Max. 5 mm from check right edge Max. 1.5 mm from check left edge
Mechanism life	240,000 passes (when used with US personal checks)

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H6000II/III with Card Scanner

High-Speed Printer with Card Scanner

Hybrid

The TM-H6000II/III with Card Scanner is the only POS printer with an integrated check & ID card scanner

TM-H6000II/III with card scanner offes not only high speed with two color receipt printing and superior slip printing but also scanning and capturing customer's ID card. In just a few seconds for scanning & capturing the customer's ID card, you can store customer ID card image at the point of sales.

Fraud Deterrent

TM-H6000II/III with card scanner can scan the customer's ID card at checkout, and ID collection is one of the most powerful deterrents to check fraud and fits the ID verification laws for every required item.

Card Scanner Specifications

Scanner type	Contact image sensor (CIS)
Resolution	200 dpi (H) x 200 dpi (V)
Gradation	256-level gray scale
Scanning area	56 x 90 mm
Scanning speed	120 mm/sec.
Data compression method	JPEG
Data transmission format	JFIF (JPEG file format) (If the data is transmitted without compressing data, raw data, BMP format, or TIFF format)

Card Specifications

Type of card	Based on ISO/IEC7810 (except a card with embossing)
Card size	53.92 to 54.18 mm (W) x 85.47 to 85.90 mm (L) (Card type: ID-1)
Card thickness	0.5 to 0.84 mm
Curvature of card	2 mm or less (ISO/IEC7810)

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H5000II

High-End POS System Printer

Hybrid

Thermal And Dot Output

This provides application versatility with thermal and dot matrix output. It also includes a speedy 120-mm/sec. receipt printing, and ladder and fence barcode printing.

Wide Slip Printing

Packed with exciting features, the TM-H5000II prints slips up to a width of 88 columns, with one original and four copies.

ASB Easy Setting Autocutter MICR Maintenance Memory Display Port Multi Language

Print method		Receipt: Thermal line printing, Slip: 9-pin serial impact dot matrix
Print font	Font	Receipt: 9 x 17 / 12 x 24, Slip: 7 x 9 / 9 x 9
	Column capacity (columns)	Receipt: 56 / 42, Slip: 88 / 66
	Character size (mm)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H), Slip: 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	95 Alphanumeric, 32 International, 128 x 7 Graphic (Receipt) 128 x 10 Graphic (Slip) Traditional / Simplified Chinese, Thai, Japanese
	Characters per inch	Receipt: 20.0 cpi / 15.0 cpi, Slip: 16.7 cpi / 12.5 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Receipt: 120 mm / sec. (38 lps, 1 / 8" conversion), Slip: 311 / 233 cps
Paper	Dimensions (mm)	Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0, Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L)
	Thickness (mm)	Receipt: 0.06 to 0.07, Slip: 0.09 to 0.2, (total thickness: ~ 0.36)
Copy capability		Slip: One original and four copies
Inked ribbon		ERC-31 (Purple, Black)
Ribbon life		Purple: 7,000,000 characters, Black: 4,500,000 characters
Power		24 VDC ± 10%
Power consumption		Receipt: Approx. 1.7 A, Slip: Approx. 1.9 A
D.K.D.function		2 drivers
Reliability		MTBF: Receipt: 360,000 hours, Slip: 180,000 hours MCBF: Receipt: 52,000,000 lines, Slip: 29,000,000 lines
Overall dimensions (mm)		252 (W) x 331 (D) x 201 (H), (excluding extended table)
Mass (Approx.)		6.5 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Factory options		MICR device
Safety standards		UL / CSA / EN

TM Series Impact Dot Matrix Printers

Impact dot matrix

Widely used for receipt printing, dot matrix printers are the only choice when the demand is for multi-part output. Other dot matrix printer benefits include exceptional durability that keeps maintenance costs low and economical operation. And the printing ribbon needs to be changed only occasionally. With Epson dot matrix printers, you also get high quality results thanks to the 9-pin heads.

9-pin, serial dot

TM-U220 Series

Impact dot matrix

High Cost-Performance Printers

The TM-U220 — The New Industry-wide Standard in Printing

The TM-U220 is the easy to use yet powerful successor to the TM-U210, whose ease-of-use and reliability have made it an overwhelming favorite around the world.

Outstanding Compatibility

The TM-U220 printers are designed to be compatible with existing systems built around a TM-U210. These systems can be upgraded simply by dropping in a TM-U220. Moreover, since the external dimensions are nearly identical, there is no need to change the installation environment. The transition to the new model is as smooth as can be.

Type B

Type A

Easy Operation

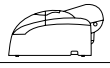
Free busy operators from troublesome roll paper and ribbon cassette replacement. The TM-U220 makes these chores a snap. Simply pop the cover, drop in the paper or ribbon, shut the cover. You're back in business.

Higher Printing Speed

A full 30% faster than its predecessors, the TM-U220 printers provide high-efficiency throughput. Retailers can hand receipts to customers faster. Restaurant kitchens can receive orders quickly.

Superior Versatility

The versatile TM-U220 suits a wide range of needs and applications. Each type is powerful, yet compact enough to fit in confined spaces. The wall-mountable Type B and Type D free up valuable counter space in kitchens and other tight locations. Moreover, both Type B and Type D handle your choice of 58, 69, or 76 mm width roll paper.

MODEL / Item	Standard device / unit	Applications	Appearance
Type A	Take up / Automatic cutter	Receipt & Journal Printer	
Type B	Automatic cutter	Kitchen Receipt / ticket	
Type D		Receipt	

Print method		9-pin, serial impact dot matrix
Print font	Font	7 x 9 / 9 x 9
	Column capacity (columns)	40 / 42 or 33 / 35
	Character size (mm)	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	95 Alphanumeric, 48 International, 128 x 12 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean
	Characters per inch	17.8 / 16 cpi or 14.5 / 13.3 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: USB, 10 Base-T I/F
Data buffer		4 KB or 40 bytes
Print speed		4.7 lps (at 40 columns, 16 cpi), 6.0 lps (at 30 columns, 16 cpi)
Paper	Dimensions (mm)	Roll paper: 57.5 ± 0.5, 69.5 ± 0.5, 76.0 ± 0.5, (W) x dia. 83.0
	Thickness (mm)	0.06 to 0.085
Copy capability		One original and one copy
Inked ribbon		ERC-38 (Purple, Black, Black / Red)
Ribbon life		Purple: 4,000,000 characters, Black: 3,000,000 characters B / R: 1,500,000 characters (Black) / 750,000 characters (Red)
Power		AC adapter (included)
Power consumption		Approx. 31 W
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 18,000,000 lines
Overall dimensions (mm)		Type A: 160 (W) x 286 (D) x 157.5 (H) Type B: 160 (W) x 248 (D) x 138.5 (H) Type D: 160 (W) x 248 (D) x 138.5 (H)
Mass (Approx.)		Type A: 2.7 kg, Type B: 2.5 kg, Type D: 2.3 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		Exclusive AC adapter (included)
Factory options		Near-end sensor
Option		Wall-hanging bracket WH-10
Safety standards		UL / CSA / EN

ASB · Easy Setting · Autocutter · 2 Colors · Multi Language · Dark Gray

9-pin, serial dot

TM-U230

Impact dot matrix

Dirt-Resistant Kitchen Printer

Water Resistant and Easy to Clean

With a water-resistant case and a unique drain channel, the TM-U230 is a perfect addition to any busy kitchen. Its flat surface makes it easy to wipe clean, while a fine coating makes it possible to remove oils, sauces, and other kitchen stains.

Flexible and Versatile

Install the TM-U230 wherever you want: vertically (paper exit at the front), horizontally (paper exit on top), or hanging on the wall (bracket optional). And with Ethernet and USB available as options, you can be sure that the TM-U230 will fit into any kitchen network. Ethernet capability allows this unique kitchen printer to be connected to a large network or an Order Entry System.

Print method		9-pin, serial impact dot matrix
Print font	Font	7 x 9 / 9 x 9
	Column capacity (columns)	40 / 42 or 33 / 35
	Character size (mm)	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 8 Graphic Traditional / Simplified Chinese
	Characters per inch	16 or 17.8 cpi, 13.3 or 14.5 cpi
Interfaces		RS-232, Bi-directional parallel, 10 Base-T I/F Dealer option: RS-485, USB
Data buffer		1 KB / 16 KB
Print speed		3.5 lps (at 40 columns, 16 cpi) 6.4 lps (at 16 columns, 16 cpi)
Paper	Dimensions (mm)	Roll paper: 76.0 ± 0.5 (W) x dia. 83.0
	Thickness (mm)	0.06 to 0.085
Copy capability		One original
Inked ribbon		ERC-38 (Purple, Black, Black / Red)
Ribbon life		Purple: 4,000,000 characters, Black: 3,000,000 characters B / R: 1,500,000 characters (Black), 750,000 characters (Red)
Power		24 ~ 34 VDC
Power consumption		Approx. 43 W
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 18,000,000 lines
Overall dimensions (mm)		166 (W) x 168 (D) x 259.5 (H)
Mass (Approx.)		2.8 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		Power supply built-in model / Power supply separate model
Options		Wall-hanging bracket WH-10
Safety standards		UL / CSA / EN

ASB · Auto Feed · Autocutter · 2 Colors · Multi Language · Dark Gray

9-pin, serial dot

TM-U950

Impact dot matrix

Versatile Printer For Large POS Systems

Outstanding Performance & Versatility

Prints everything from slips and receipts to journals. Ultra-fast output of up to 88 columns on A4-size paper with bi-directional, logic-seeking printing.

Reliability & Convenience

The reliability is there. Plus a wide range of handy features including automatic paper cutting and easy paper loading and ribbon changing.

Print method		9-pin, serial impact dot matrix
Print font	Font	7 x 9 / 9 x 9
	Column capacity (columns)	Receipt (Journal): 40 / 30, Slip: 88 / 66
	Character size (mm)	1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	95 Alphanumeric, 32 International, 128 x 9 Graphic
	Characters per inch	16.7 cpi / 12.5 cpi
Interfaces		RS-232, Bi-directional parallel
Data buffer		2 KB or 32 bytes
Print speed		311 / 233 cps
Paper	Dimensions (mm)	Receipt (Journal): Roll paper: 69.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L)
	Thickness (mm)	Receipt (Journal): 0.06 to 0.09, Slip: 0.09 to 0.36
Copy capability		One original and four copies (for slip)
Inked ribbon		ERC-31 (Purple)
Ribbon life		Purple: 7,000,000 characters
Power		24 VDC ± 10%
Power consumption		Approx. 1.8 A (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 18,000,000 lines
Overall dimensions (mm)		251 (W) x 298 (D) x 194.5 (H)
Mass (Approx.)		5.6 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Factory options		MICR device
Safety standards		UL / CSA / EN

ASB · Auto Feed · Autocutter · MICR · Display Port

9-pin, serial dot

TM-U675

Impact dot matrix

High-Performance, Multi-Purpose Printer

Print method		9-pin serial impact dot matrix
Print font	Font	5 x 9 / 7 x 9
	Column capacity (columns)	Receipt: 37 / 50, Slip / Validation: 45 / 60
	Character size (mm)	1.56 (W) x 3.1 (H) / 1.24 (W) x 3.1 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 12 Graphic
	Characters per inch	13.3 cpi / 17.8 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Approx. 5.14 lps (at 40 columns, 17.8 cpi)
Paper	Dimensions (mm)	Roll paper: 82.5 / 76.0 ±0.5 (W) x dia. 83.0 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Validation: 68 to 230 (W) x 68 to 230 (L) (min.68 x 152)
	Thickness (mm)	Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.2 (total thickness: 0.09 to 0.31)
Copy capability		One original and two copies
Inked ribbon		ERC-32 (Purple, Black)
Ribbon life		Purple: 6,000,000 characters , Black: 4,000,000 characters
Power		24 VDC ±10%
Power consumption		Approx.1.8 A (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 37,000,000 lines
Overall dimensions (mm)		186 (W) x 298 (D) x 195 (H)
Mass (Approx.)		5.8 kg
EMI standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Factory options		MICR device, Autocutter
Safety standards		UL / CSA / EN

ASB · Auto Feed · Autocutter · MICR · Maintenance Memory · Display Port

Fast & Super Quiet

Throughput is fast thanks to bi-directional minimum distance printing.
Quieter than other impact dot matrix printers of its class.

Handy Features

ASB (Automatic Status Back) function automatically transmits changes in printer status.
Also offers the convenience of two-way paper loading.

9-pin, serial dot

TM-U325

Impact dot matrix

High-Performance 1.25 Station Printer

Print method		9-pin, serial impact dot matrix
Print font	Font	7 x 9 / 9 x 9
	Column capacity (columns)	40 / 42 or 33 / 35 (3 half dots / 2 half dots space)
	Character size (mm)	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	95 Alphanumeric / 32 International, 128 x 8 Graphic
	Characters per inch	16 or 17.8 cpi / 13.3 or 14.5 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 45 bytes
Print speed		Approx. 3.5 lps (at 40 columns, 16 cpi) Approx. 6.4 lps (at 16 columns, 16 cpi)
Paper	Dimensions (mm)	Receipt: 76.0 ± 0.5 (W) x dia. 83.0 Validation: 135 (W) x 70 (L) to 182 (W) x 182 (L) (Maximum print lines: 9 lines)
	Thickness (mm)	Receipt: 0.06 to 0.085 (total thickness:0.2mm or less) Validation: 0.09 to 0.12 (total thickness 0.09 to 0.31)
Copy capability		One original and two copies
Inked ribbon		ERC-38 (Purple, Black)
Ribbon life		Purple: 4,000,000 characters, Black: 3,000,000 characters
Power		AC adapter (included)
Power consumption		Approx. 43 W
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 49,000,000 lines
Overall dimensions (mm)		164 (W) x 240 (D) x 136 (H)
Mass (Approx.)		2.3 kg
EMC standards		FCC class A
Power supply		Exclusive AC adapter (included)
Safety standards		UL / CSA / EN

ASB · Auto Feed

Versatile Printing

Receipt printing and multi-line validation up to 9 lines from a compact, space-saving unit.

Quiet, Fast Output

Designed for environments where quiet operation is a must.
Features logic-seeking control for fast 6.4 lps receipt and multi-line validation printing.

TM Series Slip Printers

Slip printer

Compact, easy-to-use and exceptionally reliable, Epson's slip printers have what it takes to satisfy POS, banking and other transaction needs. One valuable feature is the ability to print slips with multiple copies.

9-pin, serial dot

TM-U590

Slip printer

Versatile Printing

Designed to handle virtually any printing task including output of slips up to 88 columns wide.
Can also provide four copies with one original.

User-Friendly

Complete with the ESC/POS® command system for smooth, error-free operation. Printer operation status provided by the Automatic Status Back function.

Wide Slip Printer

Print method		9-pin, serial impact dot matrix
Print font	Font	7 x 9 / 9 x 9
	Column capacity (columns)	88 / 66
	Character size (mm)	1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	95 Alphanumeric, 32 International, 128 x 10 Graphic Simplified Chinese, Japanese, Korean
	Characters per inch	16.7 cpi / 12.5 cpi
Interfaces		RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer		4 KB or 69 bytes
Print speed		311 / 233 cps
Paper	Dimensions (mm)	70 (W) x 70 (L) to 210 (W) x 297 (L)
	Thickness (mm)	0.09 to 0.2 (total thickness: ~ 0.36)
Copy capability		One original and four copies
Inked ribbon		ERC-31 (Purple, Black)
Ribbon life		Purple: 7,000,000 characters, Black: 4,500,000 characters
Power		24 VDC ± 10%
Power consumption		Approx. 1.9 A (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 29,000,000 lines
Overall dimensions (mm)		252 (W) x 266 (D) x 185 (H)
Mass (Approx.)		5 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Safety standards		UL / CSA / EN

ASB · Display Port · Multi Language

7-pin, shuttle dot

TM-U295

Slip printer

World's Smallest Slip Printer

Combines printing versatility and ultra-compact, space-saving design.

Printing Versatility

Provides a choice of character sizes, and enables printing in four directions.

Ultra-Compact Slip Printers

Print method		7-pin, shuttle impact dot matrix
Print font	Font	5 x 7 / 7 x 7
	Column capacity (columns)	35 / 42
	Character size (mm)	1.6 (W) x 2.9 (H) / 1.3 (W) x 2.9 (H)
	Character set	95 Alphanumeric, 32 International, 128 x 3 Graphic
	Characters per inch	13.5 cpi / 16.2 cpi
Interfaces		RS-232, Bi-directional parallel
Data buffer		512 bytes or 35 bytes
Print speed		2.1 lps
Paper	Dimensions (mm)	80 (W) x 69 (L) to 182 (W) x 257 (L)
	Thickness (mm)	0.09 to 0.25 (total thickness with copy: ~ 0.35)
Copy capability		One original and two copies
Inked ribbon		ERC-27 (Purple)
Ribbon life		1,500,000 characters
Power		24 VDC ± 10%
Power consumption		Approx. 600 mA (mean)
D.K.D.function		2 drivers
Reliability		MTBF: 180,000 hours MCBF: 7,000,000 lines
Overall dimensions (mm)		180 (W) x190.5 (D) x 101.5 (H)
Mass (Approx.)		1.6 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply		PS-180 (option)
Safety standards		UL / CSA / EN

ASB · Dark Gray

Options

POWER SUPPLY

PS-180

Input	Output	Plug	Safety standard		
			UL	CSA	TÜV
100 to 240V AC	24 VDC, 2.0A	3P power jack	●	●	●

CUSTOMER DISPLAY

DM-D Series

RIBBON CASSETTES

ERC-38
for TM-U220, TM-U375, TM-U325, TM-U230 (Purple, Black, Black/Red)

ERC-31
for TM-U950, TM-U590, TM-H5000II, (Purple, Black)

ERC-27
for TM-U295 (Purple, Black)

ERC-32
for TM-H6000III, TM-U675 (Purple, Black)

ERC-41
for TM-H6000III (Endorsement Printer) (Purple, Black)

*An Epson ribbon is recommended.

INK CARTRIDGES

SJIC3
for TM-J2100 (Black)

SJIC4
for TM-J2100 (Red, Green, Blue)
Used with SJIC3

SJIC5
for TM-J2000 (Black)

SJIC6
for TM-J7100, TM-J7600, TM-J9100 (Black)

SJIC7
for TM-J7100, TM-J7600, TM-J9100 (Red, Green, Blue)
Used with SJIC6

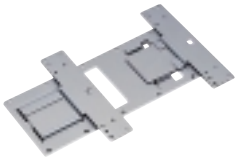
SJIC8
for TM-J7000, TM-J7500, TM-J9000 (Black)

SJIC9P
for TM-C100 (Cyan, Magenta, Yellow, Black)

SJIC10P(K)
for TM-C100 (Black)

ACCESSORIES

DC-21
DC cable set (for TM series)

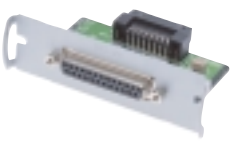


WH-10
Wall-hanging bracket for TM-T90/L90, TM-T88Ⅲ, TM-U230, TM-U220

WT-5000
Extension table for TM-H5000II

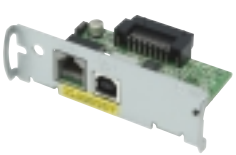
Expandability

UB-S01/02



UB-P02Ⅱ

UB-U02Ⅲ



UB-U04

UB-E02

UB-R02

Multiple Interfaces

TM Series printers feature a wide range of interfaces, including USB & Ethernet interfaces. Besides satisfying current customer needs, these enable easy upgrading in the future, an important consideration for growing businesses.

	UB-S01	UB-S02	UB-S09	UB-P02Ⅱ	UB-U01Ⅲ	UB-U02Ⅲ	UB-U04	UB-E02	UB-R02
Data transfer format	RS-232	RS-485	RS-232	IEEE1284	USB	USB	USB w / Power	10/100BASE-TX	IEEE802.11b
Remarks			With DM-D connector		With hub & DM-D Connector	With DM-D connector	24 VDC		

Epson Setting POS Standards

Drivers for Wide-Ranging Applications

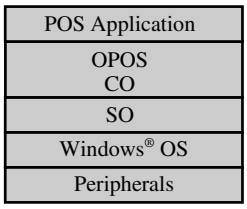
Unified POS Related Drivers

Unified POS is a combined two existing device interface standard under one specification of Point of Service Devices. Herein, two existing device interface standard is OPOS and JavaPOS™. Epson is a key player of these (Unified POS, OPOS and JavaPOS™), and promote the standardization of peripheral device control drivers for the retail market. At the same time, we also provide a wide range of customers with drivers to support POS applications development. Working from customer feedback, our future aims include offering still better functions.

Epson OPOS ADK

Epson OPOS ADK, provides the versatility and convenience of applications development in Windows NT®, Windows® 2000, Windows® XP and WEPOS environments.
Besides dramatically reducing the number of application steps, Epson OPOS ADK makes system upgrading pretty easy.

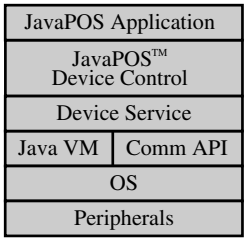
OPOS Architecture



Epson JavaPOS™ ADK

Java™ is a platform-independent language widely used for POS and other applications. JavaPOS™ standard API makes peripheral devices easy to operate and supports quick system startup. Epson JavaPOS™ ADK provides support in mainly Linux® environments.

JavaPOS™ Architecture



Standard Specifications

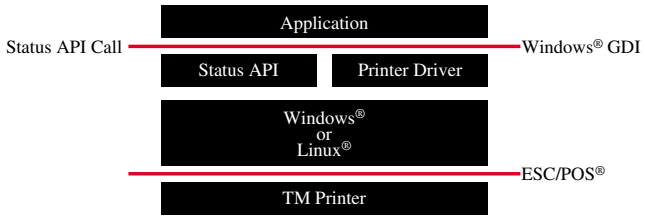
~ OPOS APG 1.9
~ JavaPOS™ PG 1.9

Migration To Non-POS Markets

Epson offers the Advanced Printer Driver to meet the needs of non-retail markets.

Epson Advanced Printer Driver

Advanced Printer Driver: Windows® Printer Driver + Status API
1. Status API allows use of Epson's original Printer Status function
2. Easy applications development in non-POS Windows® environments
3. Enables use of unique TM Series printer functions for other environments (image printing, network connection, spooling processing, etc.)

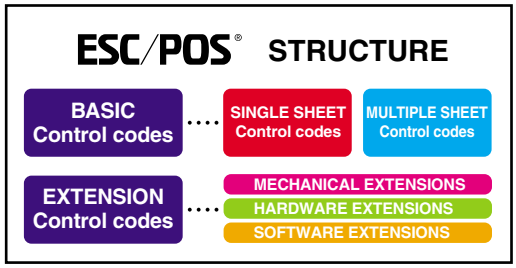


Epson Advanced Linux® Printer Driver

Epson is now developing a Linux® Driver as an alternative operating system to Windows®.

ESC/POS® Proprietary Command System

Epson took the initiative by introducing ESC/POS®, a proprietary POS printer command system including patented commands and enabling versatile POS system construction with high scalability. Compatible with all types of Epson POS printers and displays, this proprietary control system also offers the flexibility to easily make future upgrades. Its popularity is worldwide.



ESC/POS is a registered trademark of Seiko Epson Corporation.
Epson is a member of the OPOS committee and JavaPOS initiative.

TM SERIES SPECIFICATIONS

Item		Inkjet Printer	
		TM-J7000 Series	TM-J9000 / J9100
Appearance			
Print method		Serial Inkjet dot matrix (180 dpi x 180 dpi)	
Print Font	Font	12 x 24 / 9 x 17	
	Column capacity (columns)	Receipt: 82.5 mm: 42 / 56, 76 mm: 40 / 53, 69.5 mm: 36 / 48, 57.5 mm: 30 / 40, Slip: 48 / 64, Endorsement: 46 / 61 (for J7000 / J7100), Slip: 80 / 106 (for J7500 / J7600)	Receipt: 40 / 53, Validation: 62 / 82
	Character size (mm)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H)
	Character set	95 Alphanumeric, 37 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7), Two-dimensional code: PDF417	95 Alphanumeric, 48 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR (NW7)
	Characters Per Inch	15 cpi / 20 cpi	
Interfaces*		RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	USB 2.0, Dealer option: RS-232, Bi-directional parallel, Ethernet
Data buffer		4 KB	
Print speed		Character: 14.3 lps, Graphic: 43 mm / sec. (Paper width 76 mm, Economy, High speed mode)	Character: 14.3 lps (8 lines/inch), Graphic: 43 mm / sec. (Receipt: High speed mode, paper width 76 mm, full columns print)
Paper	Dimensions (mm)	Receipt: 57.5 ± 0.5, 69.5 ± 0.5, 76 ± 0.5, 82.5 ± 0.5 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Endorsement: 68 to 101.6 (W) x 150 to 223 (L) (for J7000 / J7100)	Receipt: 76mm, Validation: 68 to 100 x 152 to 230 (H x W)
	Thickness (mm)	Receipt: 0.06 to 0.09, Slip: 0.09 to 0.2, Endorsement: 0.09 to 0.13 (for J7000 / J7100)	Receipt: 0.06 to 0.09 Validation: 0.09 to 0.13
Copy capability		–	
Ink cartridge		Single color: SJIC8 (K) : Black (for J7000 / J7500 / J9000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B): Blue, SJIC7 (G): Green (for J7100 / J7600 / J9100)	
Ink Life (characters)		Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined)	
Power		24 VDC ± 10%	
Power consumption		Operating: Approx. 0.5 A, Stand-by: Approx. 70 mA (for J7000 / J7100) Stand-by: Approx. 80 mA (for J7500 / J7600)	Operating : Approx. 1.0A Stand-by: Approx. 0.2A
D.K.D.function		2 drivers	–
Reliability	MTBF	180,000 hours	
	MCBF	50,000,000 lines	2,470,000 transactions (This is an average failure interval based on failures relating to wearout and random failures up to the life of 1,000,000 transactions)
Overall dimensions (mm)		195 (W) x 237 (D) x 188 (H) (for J7000 / J7100) 251 (W) x 237 (D) x 188 (H) (for J7500 / J7600)	466(389) (W) x 232 (D) x 180 (H) (with ASF) 310(236) (W) x 232 (D) x 180 (H) (without ASF)
Mass (Approx.)		4.4 kg (for J7000 / J7100), 4.9g (for J7500 / J7600)	5.2 kg (with ASF) / 4.9 kg (without ASF)
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A
Power supply (option)		PS-180	
Factory Options		MICR device (for J7000 / J7100)	Auto Sheet Feeder (ASF) with Double Feed Detection Function
Safety Standards		UL / CSA / EN	

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS

Inkjet Printer

TM-J2000 / J2100	TM-C100	
		Appearance
Serial inkjet dot matrix (180 dpi x 180 dpi)	Serial inkjet dot matrix (Max. 360 dpi x 360 dpi)	**Print method**
12 x 24 / 9 x 17	Not equipped with print font and print all data as the graphic data	Font
82.5 mm: 42 / 56, 76 mm: 40 / 53 70 mm: 36 / 48, 58 mm: 30 / 40	This printer does not have a bar code/two-dimensional symbol encoding function; however, a bar code/two-dimensional symbol that can be read with a bar code/two-dimensional symbol reader can be created by printing bar code/two-dimensional symbol data (graphic data) provided by users.	Column capacity (columns)
1.69 (W) x 3.38 (H) / 1.27 (W) x 2.4 (H)		Character size (mm)
ASCII, WPC1252, PC437, PC850, PC852, PC858, PC860, PC863, PC865, PC866 Custom Graphic, Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), 2 of 5 (ITF), CODE39, CODE93, CODE128, CODABAR (NW7)	UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7) Two-dimensional code: PDF417	Character set
15 cpi / 20 cpi		Characters Per Inch
		Print Font
RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	USB	**Interfaces***
4 KB or 512 bytes	–	**Data buffer**
Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print)	Four-color: Max. 35 mm / sec. Single-color: Max. 51 mm /sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing)	**Print speed**
57.5 ± 0.5, 69.5 ± 0.5 76 ± 0.5, 82.5 ± 0.5	Roll Paper model / Roll paper: 45 to 105 (W) x dia. 90.0 ASF model / ASF: 55 to 135 (W) x 85 to 210 (L) insertion by hand: 49 to 210 (W) x 120 to 297 (L)	Dimensions (mm)
0.06 to 0.11	Roll Paper model / Roll paper: 0.06 to 0.23 ASF model / ASF: 0.08 to 0.25, insertion by hand: 0.08 to 0.25	Thickness (mm)
		Paper
–		**Copy capability**
Single color: SJIC5 (K): Black (for J2000 only) Two color: SJIC3 (K): Black, SJIC4 (R): Red, SJIC4 (B): Blue, SJIC4 (G): Green (for J2100)	Four-color: SJIC9P (4-color combined, pigment ink) Single-color: SJIC10P (K) (Black, pigment ink)	**Ink cartridge**
Single color: Approx. 24,000,000 Two color: Approx. 17,000,000 (2 colors combined)	Four-color: 660 pages (printable area 100 x 280 mm, with each of the colors covering 8.5% of the area, high speed mode printing) Single-color: 2,500 pages (printable area 100 x 150 mm, with each of the colors covering 6.0% of the area, high speed mode printing)	**Ink Life (characters)**
24 VDC ± 10%	AC adapter (included)	**Power**
Operating: Approx. 1A Stand-by: Approx. 65mA	Operating : Approx. 11W (mean)	**Power consumption**
2 drivers	–	**D.K.D.function**
180,000 hours		MTBF
50,000,000 lines	30,000,000 passes	MCBF
		Reliability
195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H)	Roll Paper model / 210 (W) x 345 (D) x 152 (H) ASF model / 210 (W) x 367 (D) x 245 (H)	**Overall dimensions (mm)**
4.7 kg	Roll Paper model / 2.0 kg ASF model / 1.9 kg	**Mass (Approx.)**
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		**EMC standards**
PS-180	Exclusive AC adapter (included)	**Power supply (option)**
–		**Factory Options**
UL / CSA / EN		**Safety Standards**

TM SERIES SPECIFICATIONS

Item		Thermal Line Printer		
		TM-P60	TM-T88III	TM-L60II
Appearance				
Print method		Thermal line printing		
Print Font	Font	12 x 24 / 10 x 24 / 8 x 16	9 x 17 / 12 x 24	9 x 24 / 12 x 24
	Column capacity (columns)	35 / 42 / 52 (58 mm), 36 / 43 / 54 (60 mm)	56 / 42	42 / 32 (Roll paper), 40 / 30 (Label)
	Character size (mm)	1.50 (W) x 3.0 (H) / 1.25 (W) x 3.0 (H) / 1.0 (W) x 2.0 (H)	0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H)	0.99 (W) x 3.39 (H) / 1.41 (W) x 3.39 (H)
	Character set	95 Alphanumeric, 48 International, 128 x 10 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR	95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR	95 Alphanumeric, 32 International, 128 x 7 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
	Characters Per Inch	16 cpi / 20 cpi / 25 cpi	20.0 cpi / 15.0 cpi	
Interfaces*		IEEE 802.11b or Bluetooth®, RS-232	RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel
Data buffer		128 bytes	4 KB or 45 bytes	
Print speed		Max. 70 mm / sec.	Max. 150 mm / sec.	50 mm / sec. (12 lps with 1 / 6" paper feed)
Paper	Dimensions (mm)	Roll paper: 57.5 ± 0.5 (W) x dia. 51.0 (max.) (59.5 ± 0.5 (W) by removing the spacer installed)	Roll paper: 79.5 ± 0.5 (W) x dia. 83.0	Roll paper:60.0^{+0}_{-1} (W) x dia. 83.0 Label:$60.0^{+0.2}_{-0.5}$ (W) x dia. 83.0
	Thickness (mm)	0.05 to 0.08	0.06 to 0.07	Label: 0.143 ± 0.015
Copy capability		–		
Inked ribbon		–		
Ribbon Life (characters)		–		
Power		24 VDC ± 7%		
Power consumption		Approx. 1.8 A (mean)		Approx. 1.0 A (mean)
D.K.D.function		2 drivers		
Reliability	MTBF	120,000 hours	360,000 hours	180,000 hours
	MCBF	16,000,000 lines	52,000,000 lines	29,000,000 lines (thermal paper) 12,000,000 lines (thermal label)
Overall dimensions (mm)		103 (W) x 159 (D) x 65 (H)	145 (W) x 195 (D) x 148 (H)	123 (W) x 201 (D) x 124 (H)
Mass (Approx.)		0.67 kg (including battery)	1.8 kg	0.8 kg
EMC standards		VCCI class B, FCC class B, CE marking	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	
Power supply (option)		PS-10	PS-180	
Factory Options		–		
Safety Standards		UL / CSA / EN		

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS

Thermal Line Printer

TM-T90	TM-L90	
		Appearance
Thermal line printing		Print method
9 x 17 / 12 x 24		Font (Print Font)
56 / 42	64 / 48	Column capacity (columns) (Print Font)
1.3 (W) x 2.4 (H) / 1.7 (W) x 3.4 (H)	1.1 (W) x 2.1 (H) / 1.5 (W) x 3.0 (H)	Character size (mm) (Print Font)
95 Alphanumeric, 37 International, 128 x 11 Graphic Bar code: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417, Maxicode (L90 only), QRCode (L90 only)		Character set (Print Font)
20.0 cpi / 15.0 cpi	22.6 cpi / 16.9 cpi	Characters Per Inch (Print Font)
RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F		Interfaces*
4 KB or 45 bytes		Data buffer
Max. 170 mm / sec.	Max. 150 mm / sec.	Print speed
Roll paper: Max. 79.5 ± 0.5 (W) x dia. 102.0	Roll paper: Max. 79.5 ± 0.5 (W) x dia. 90 .0	Dimensions (mm) (Paper)
0.06 to 0.08	0.06 to 0.15	Thickness (mm) (Paper)
–		Copy capability
–		Inked ribbon
–		Ribbon Life (characters)
24 VDC ± 7%		Power
Approx. 1.7 A (mean)		Power consumption
2 drivers		D.K.D.function
360,000 hours		MTBF (Reliability)
70,000,000 lines	70,000,000 lines (when printing receipt)	MCBF (Reliability)
140 (W) x 201 (D) x 148 (H)	140 (W) x 148 (D) x 203 (H)	Overall dimensions (mm)
1.8 kg	1.9 kg	Mass (Approx.)
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		EMC standards
PS-180		Power supply (option)
–		Factory Options
UL / CSA / EN		Safety Standards

TM SERIES SPECIFICATIONS

Item		Hybrid Printer	
		TM-H6000III	TM-H5000II
Appearance			
Print method		Receipt: Thermal line printing , Slip: 9-pin serial impact dot matrix E / P: 8-pin shuttle impact dot matrix	Receipt: Thermal line printing Slip: 9-pin serial impact dot matrix
Print Font	Font	Receipt: 9 x 17 / 12 x 24 Slip: 5 x 9 / 7 x 9, E / P: 5 x 7	Receipt: 9 x 17 / 12 x 24 Slip: 7 x 9 / 9 x 9
	Column capacity (columns)	Receipt: 56 / 42, Slip: 45 / 60, E / P: 40	Receipt: 56 / 42, Slip: 88 / 66
	Character size (mm)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) Slip: 1.24 (W) x 3.1 (H) / 1.56 (W) x 3.1 (H), E / P: 1.1 (W) x 2.42 (H)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) Slip: 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	Receipt / Slip: 95 Alphanumeric, 37 International, Receipt: 128 x 11 Graphic, Slip: 128 x 12 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417 (Receipt only)	95 Alphanumeric, 32 International, 128 x 7 Graphic (Receipt) 128 x 10 Graphic (Slip) Traditional / Simplified Chinese, Thai, Japanese
	Characters Per Inch	Slip: 13.3 cpi / 17.8 cpi	Receipt: 20.0 cpi / 15 .0 cpi Slip: 16.7 cpi / 12.5 cpi
Interfaces*		RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	
Data buffer		4 KB or 45 bytes	
Print speed		Receipt: Max. 200 mm sec. Slip: Approx. 5.7 lps (at 40 columns, 17.8 cpi), E / P: Approx. 1.9 lps	Receipt: 120 mm / sec. (38 lps,1 / 8" conversion) Slip: 311 / 233 cps
Paper	Dimensions (mm)	Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0 Slip & E / P: 68 to 230 x 68 to 297 (W x L) NOTE: The minimum paper size is 68 x 152 mm	Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L)
	Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.31, E / P: 0.09 to 0.2	Receipt: 0.06 to 0.07 Slip: 0.09 to 0.2 (total thickness: ~ 0.36)
Copy capability		Slip: One original and three copies, E / P: One original single ply	Slip: One original and four copies
Inked ribbon		Slip: ERC-32 (Purple, Black), E / P: ERC-41 (Purple, Black)	ERC-31 (Purple, Black)
Ribbon Life (characters)		Slip: Purple: 6,000,000, Black: 4,000,000 E / P: Purple: 1,000,000, Black: 800,000	Purple: 7,000,000 , Black: 4,500,000
Power		24 VDC ± 10 %	
Power consumption		Receipt: Approx. 1.8 A Slip: Approx. 1.7 A	Receipt: Approx. 1.7 A Slip: Approx. 1.9 A
D.K.D.function		2 drivers	
Reliability	MTBF	Receipt: 360,000 hours, Slip: 180,000 hours	
	MCBF	Receipt: 72,000,000 lines Slip: 18,000,000 lines	Receipt: 52,000,000 lines Slip: 29,000,000 lines
Overall dimensions (mm)		186 (W) x 298 (D) x 185 (H)	252 (W) x 331 (D) x 201 (H) (excluding extended table)
Mass (Approx.)		5.3 kg	6.5 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply (option)		PS-180	
Factory Options		MICR device, Endorsement Printer (E / P)	MICR device
Safety Standards		UL / CSA / EN	

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS

Impact Dot Matrix Printer

TM-U950	TM-U675	
		Appearance
9-pin, serial impact dot matrix		**Print method**
7 x 9 / 9 x 9	5 x 9 / 7 x 9	Font — **Print Font**
Receipt (Journal): 40 / 30, Slip: 88 / 66	Receipt: 37 / 50, Slip / Validation: 45 / 60	Column capacity (columns) — **Print Font**
1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	1.56 (W) x 3.1 (H) / 1.24 (W) x 3.1 (H)	Character size (mm) — **Print Font**
95 Alphanumeric 32 International 128 x 9 Graphic	95 Alphanumeric 37 International 128 x 12 Graphic	Character set — **Print Font**
16.7 cpi / 12.5 cpi	13.3 cpi / 17.8 cpi	Characters Per Inch — **Print Font**
RS-232, Bi-directional parallel	RS-232, Bi-directional parallel RS-485, USB, 10 Base-T I/F	**Interfaces***
2 KB or 32 bytes	4 KB or 45 bytes	**Data buffer**
311 / 233 cps	Approx. 5.14 lps (at 40 columns, 17.8 cpi)	**Print speed**
Receipt (Journal): Roll paper 69.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L)	Roll paper:82.5 / 76.0 ± 0.5 (W) x dia. 83.0 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Validation: 68 to 230 (W) x 68 to 230 (L) (min.68 x 152)	Dimensions (mm) — **Paper**
Receipt (Journal): 0.06 to 0.09, Slip: 0.09 to 0.36	Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.2 (total thickness: 0.09 to 0.31)	Thickness (mm) — **Paper**
One original and four copies (for slip)	One original and two copies	**Copy capability**
ERC-31 (Purple)	ERC-32 (Purple, Black)	**Inked ribbon**
Purple: 7,000,000	Purple: 6,000,000 Black: 4,000,000	**Ribbon Life (characters)**
24 VDC ± 10 %		**Power**
Approx. 1.8 A (mean)		**Power consumption**
2 drivers		**D.K.D.function**
180,000 hours		MTBF — **Reliability**
18,000,000 lines	37,000,000 lines	MCBF — **Reliability**
251 (W) x 298 (D) x 194.5 (H)	186 (W) x 298 (D) x 195 (H)	**Overall dimensions (mm)**
5.6 kg	5.8 kg	**Mass (Approx.)**
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		**EMC standards**
PS-180		**Power supply (option)**
MICR device	MICR device, Autocutter	**Factory Options**
UL / CSA / EN		**Safety Standards**

TM SERIES SPECIFICATIONS

Item		Impact Dot Matrix Printer		
		TM-U375	TM-U325	TM-U220 series
Appearance				
Print method		9-pin, serial impact dot matrix		
Print Font	Font	5 x 9 / 7 x 9	7 x 9 / 9 x 9	
	Column capacity (columns)	33 / 40	40 / 42 or 33 / 35 (3 half dots / 2 half dots space)	40 / 42 or 33 / 35
	Character size (mm)	1.6 (W) x 3.1 (H) /1.2 (W) x 3.1 (H)	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	
	Character set	95 Alphanumeric 32 International 128 x 9 Graphic	95 Alphanumeric 32 International 128 x 8 Graphic	95 Alphanumeric, 48 International 128 x 12 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean
	Characters Per Inch	13.3 cpi / 16 cpi	16 or 17.8 cpi / 13.3 or 14.5 cpi	17.8 cpi / 16 cpi or 14.5 cpi / 13.3 cpi
Interfaces*		RS-232, Bi-directional parallel	RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel, USB, 10 Base-T I/F
Data buffer		4 KB or 40 bytes	4 KB or 45 bytes	4 KB or 40 bytes
Print speed		3.5 lps (at 40 columns, 16 cpi) 5.4 lps (at 20 columns, 16 cpi)	Approx. 3.5 lps (at 40 columns,16 cpi) Approx. 6.4 lps (at 16 columns,16 cpi)	4.7 lps (at 40 columns,16 cpi) 6.0 lps (at 30 columns,16 cpi)
Paper	Dimensions (mm)	Roll paper:76.0 ± 0.5 (W) x dia. 83.0 Slip:70 (W) x 160 (L) to 182 (W) x 257 (L) Validation:135 (W) x 70 (L) to 182 (W) x 257 (L)	Receipt:76.0 ± 0.5 (W) x dia. 83.0 Validation:135 (W) x 70 (L) to 182 (W) x 182 (L) (Maximum print lines: 9 lines)	Roll paper: 57.5 ± 0.5, 69.5 ± 0.5, 76.0 ± 0.5 (W) x dia. 83.0
	Thickness (mm)	Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.12 (total thickness: 0.09 to 0.31)	Receipt: 0.06 to 0.085 (total thickness: 0.2 mm or less) Validation: 0.09 to 0.12 (total thickness: 0.09 to 0.31)	0.06 to 0.085
Copy capability		Roll paper: One original and one copy Slip: One original and two copies	One original and two copies	One original and one copy
Inked ribbon		ERC-38 (Purple, Black)		ERC-38 (Purple, Black, Black / Red)
Ribbon Life (characters)		Purple: 4,000,000 , Black: 3,000,000		Purple: 4,000,000 Black: 3,000,000 B / R: 1,500,000 (Black), 750,000 (Red)
Power		24 VDC ± 10%	AC adapter (included)	
Power consumption		Approx. 1.4 A	Approx. 43 W	Approx. 31 W
D.K.D.function		2 drivers		
Reliability	MTBF	180,000 hours		
	MCBF	18,000,000 lines	49,000,000 lines	18,000,000 lines
Overall dimensions (mm)		186 (W) x 327 (D) x 145 (H)	164 (W) x 240 (D) x 136 (H)	Type A: 160 (W) x 286 (D) x 157.5 (H) Type B: 160 (W) x 248 (D) x 138.5 (H) Type D: 160 (W) x 248 (D) x 138.5 (H)
Mass (Approx.)		4 kg	2.3 kg	Type A: 2.7kg Type B: 2.5kg, Type D: 2.3kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	FCC class A	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply (option)		PS - 180	Exclusive AC adapter (included)	
Factory Options		–		Near - end sensor
Safety Standards		UL / CSA / EN		

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS

Impact Dot Matrix Printer	Slip Printer		
TM-U230	**TM-U590**	**TM-U295**	
			Appearance
9-pin, serial impact dot matrix		7-pin, shuttle impact dot matrix	**Print method**
7 x 9 / 9 x 9		5 x 7 / 7 x 7	Font
40 / 42 or 33 / 35	88 / 66	35 / 42	Column capacity (columns)
1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	1.6 (W) x 2.9 (H) / 1.3 (W) x 2.9 (H)	Character size (mm)
95 Alphanumeric, 37 International 128 x 8 Graphic Traditional / Simplified Chinese	95 Alphanumeric 32 International 128 x 10 Graphic Simplified Chinese Japanese, Korean	95 Alphanumeric 32 International 128 x 3 Graphic	Character set **Print Font**
16 or 17.8 cpi / 13.3 or 14.5 cpi	16.7 cpi / 12.5 cpi	13.5 cpi / 16.2 cpi	Characters Per Inch
RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F		RS-232, Bi-directional parallel	**Interfaces***
1 KB / 16 KB	4 KB or 69 bytes	512 bytes or 35 bytes	**Data buffer**
3.5 lps (at 40 columns,16 cpi) 6.4 lps (at 16 columns,16 cpi)	311 / 233 cps	2.1 lps	**Print speed**
Roll paper: 76.0 ± 0.5 (W) x dia. 83.0	70 (W) x 70 (L) to 210 (W) x 297 (L)	80 (W) x 69 (L) to 182 (W) x 257 (L)	Dimensions (mm) **Paper**
0.06 to 0.085	0.09 to 0.2 (total thickness: ~ 0.36)	0.09 to 0.25 (total thickness with copy: ~ 0.35)	Thickness (mm)
One original	One original and four copies	One original and two copies	**Copy capability**
ERC-38 (Purple, Black, Black / Red)	ERC-31 (Purple, Black)	ERC-27 (Purple)	**Inked ribbon**
Purple: 4,000,000 Black: 3,000,000 B / R: 1,500,000 (Black), 750,000 (Red)	Purple: 7,000,000, Black: 4,500,000	1,500,000	**Ribbon Life (characters)**
24 ~ 34 VDC	24 VDC ± 10%		**Power**
Approx. 43 W	Approx. 1.9 A (mean)	Approx. 600 mA (mean)	**Power consumption**
2 drivers			**D.K.D.function**
180,000 hours			MTBF **Reliability**
18,000,000 lines	29,000,000 lines	7,000,000 lines	MCBF
166 (W) x 168 (D) x 259.5 (H)	252 (W) x 266 (D) x 185 (H)	180 (W) x 190.5 (D) x 101.5 (H)	**Overall dimensions (mm)**
2.8 kg	5 kg	1.6 kg	**Mass (Approx.)**
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B			**EMC standards**
Power supply built-in model / Power supply separate model	PS - 180		**Power supply (option)**
–			**Factory Options**
UL / CSA / EN			**Safety Standards**

DM-D Series

Clear, Easy-to-Read Display

Epson DM Series displays provide customers with exceptionally clear, easy-to-read indications at a comfortable height and viewing angle.
They are also ready to provide graphic displays as well as text.
And compliance with safety standards worldwide means they can be used virtually anywhere.
Additional valuable features include an extensive font table, direct connection to any terminal, and ESC/POS® control commands for easy downloading of user-defined characters.
Two case colors (Epson Cool White and Epson Dark Gray) are available to suit your needs.

Customer Display

DM-D500

Dark Gray

256 x 64 Dot Matrix Display

Provides clear, easy-to-read display of up to 8 lines of text. Up-down. left/right adjustability of indications assures optimum viewing angle.

Graphic Display

The DM-D500 can also display pictures and illustrations, an ideal feature for advertising and when running a campaign. Vertical and horizontal scrolling of both text and graphics is also possible.

A Choice Of Stands

Five types of stands are available to meet different application needs.

OPTIONS

POWER SUPPLY

PS-180
INPUT: 100~240V AC
OUTPUT: 24 VDC, 2.0 A
Plug: 3P Power jack
Safety standards: UL, CSA, TÜV

POLE UNIT

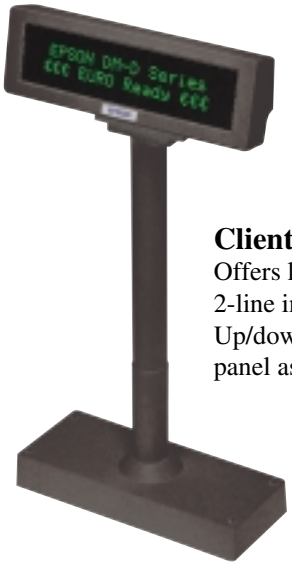
DP-105
254 (H) x dia. 35mm

DM-D110 Series

Small & Easy-To-Read
Panel and height adjustment possible with optional support.
Ideal for restaurants and specialty stores.

Direct Connection
It's easy to connect a DM Series display to an Epson TM or IR / SR Series POS unit. You can also connect directly to your current host terminal (serial port with a 12V power supply required) for expanded system flexibility.

DM-D210 Series



Client-Friendly
Offers large, easy-to-read, 20-column, 2-line indications.
Up/down, left/right adjustable display panel assures optimum viewing angle.

Compact Designs
Easy-to-read, 20-column, 2-line dot matrix displays for use with Epson TM Series printers.

SPECIFICATIONS

	DM-D500	DM-D110 Series	DM-D210 Series
Display method / Color	Vacuum fluorescent display / Green (505 mm)	Vacuum fluorescent display / Green (505 mm)	
Number of characters	Max. 336 (42 columns x 8 lines)	40 (20 columns x 2 lines)	
Brightness	300 cd / m^2	690 cd / m^2	700 cd / m^2
Character type	95 Alphanumeric characters / 37 International characters Graphic characters: 128 x 12 pages, Kanji characters	95 Alphanumeric characters / 37 International characters Graphic characters: 128 x 12 pages	
Character font	5 x 7 dot matrix, 8 x 16, 16 x 16 dot matrix	5 x 7 dot matrix, cursor	5 x 7 dot matrix, comma, decimal point, annunciator
Character size / pitch	—	3.5 x 5.0 mm / 5.2 mm	6.5 x 11.3 mm / 9.9 mm
Reliability	Expected Life 30,000 hours	Expected Life 20,000 hours	
Power / current consumption	11.4 - 48 VDC / Max. 6W	11.4 - 48 VDC / Max. 5W, 5VDC / Max. 2.5W (USB Type)	11.4 - 48 VDC / Max. 10W
Overall dimensions ····· Panel	213 (W) x 51 (D) x 76 (H) mm	165 (W) x 50.5 (D) x 69 (H) mm	260 (W) x 60 (D) x 83 (H) mm
Viewing angle	Max. 48° (5 positions)	Max. 48° (5 positions)	Max. 36° (4 positions)
Horizontal rotation	Max. 90° (combination with DP-501 / DP-110)		Max. 330° (combination with DP-210)
Case color	ECW (Epson Cool White), EDG (Epson Dark Gray)		
EMC standards	VCCI class A, FCC class A, CE marking, AS/NZS 3548 (CISPR22) class B		
Safety standards	UL / CSA / EN		
Power supply	PS-180 / Supplied by a TM printer or IR / SR		
Interface	RS-232	RS-232 / USB	RS-232

System Product Guide
2005 - 2006

EPSON

SEIKO EPSON CORPORATION

Epson Global site
http://www.epson.com

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